KINGS

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STERLING ELECTRONICS
WALLINGFORD, CONNECTICUT 06492
(203) 265-9535

RF COAXIAL CONNECTORS

A WORD ABOUT KINGS

Kings was founded in 1947 and is today a leading designer and manufacturer of RF coaxial connectors. We manufacture a broad range of connectors for operation from 0 to 18 GHz and from subminiature to the larger high voltage sizes, in a complete line of mating configurations.

Our modern facility is located in Westchester County, New York and is equipped with all the facilities required for design, development and manufacture of our products to meet the rigorous specifications imposed by our customers.

Kings has made many contributions to the development of connector technology. Among these are the several forms of the K-Grip® design configuration which simplifies assembly and reduces production time, and the TR-4® and TR-5® finishes which have added to the life and appearance of coaxial connectors. We are a supplier to the broadcast, telecommunications, microwave, military, computer, aircraft and high energy physics markets. Kings connectors are specified in numerous high tech programs including NIM (Nuclear Instrumentation Module), Camac, and TCAS (Traffic Alert and Collision Avoidance System).

All connectors are made to meet applicable military specifications. Our quality assurance procedures are in accordance with MIL-I-45208. In addition, Kings has recognized the need for constant effort to make continued improvement in the quality of our products and services. A company-wide program is in place that involves all employees in achieving Quality Improvement through team effort and application of Statistical Process Control Techniques.

We have an experienced and knowledgable engineering staff, active in EIA and military standards activities, and ready to respond to all your connector requirements. To assist you with your immediate technical inquiries, we maintain a customer application engineering group.

Our fully equipped RF test laboratory is capable of performing all electrical, mechanical and environmental tests, including complete qualification testing to military specifications, and includes a Hewlett-Packard 8510 network analyzer. Our engineering department is equipped with the latest computer aided design facilities which are continuously being upgraded to keep pace with the rapidly changing technology.

Kings is a complete RF connector company, ready to serve all your RF connector needs with urgency, precision, maximum performance, and cost effectiveness.

KINGS

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WARRANTY

Kings warrants that each unit sold is in accordance with Kings specifications, drawings, samples or data (or those of buyer accepted by Kings in writing) in effect on the date of receipt of the order, as they apply to those parts called for on the order, and that each unit is free from defects in material and workmanship.

Kings liability under this warranty is limited to the repair or replacement of any unit which proved to be defective in material or workmanship under normal use and service within one year from date of shipment provided the unit is returned to the seller's shipping point (Kings factory or authorized distributor, if purchased through this source). No material is accepted for replacement or repair without the written authority of Kings Electronics.

Seller is in no event liable for special or consequential damages, installation cost, or other costs of any nature as a result of the use of the products manufactured by Kings, whether used in accordance with instructions or not.

No representative or distributor is authorized to assume for Kings any liability in connections with Kings products.

This warranty is in lieu of all other warranties expressed or implied.

NOTE: Specifications are subject to change without notice. All information contained in this catalog is generally representative of the item and is believed to be accurate and reliable at the time of printing. It is presented without guarantee or responsibility of any kind, express or implied, other than the conditions contained in our Warranty Statement. All dimensions shown are for reference only. Contact the factory for the latest or specific data on any item.

Registered Trademarks of Kings Electronics Co. Inc. —
TR-4®, TR-5®, K-GRIP®, K-GRIP JR.®, WEATHERPROOF K-GRIP JR.®, PRE-ASSEMBLED K-GRIP®, TAPER GRIP®, SPEED GRIP®, TRI-LOC®, ROTO-STRIP®

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CONNECTOR SELECTION GUIDE

SERIES	SIZE	COUPLING	CABLE SIZE RANGE OD (inch)	MAX. FREQ.	MAX. VSWR	VOLTAGE RATING	GOVERNING SPEC	RELATIVE COST
MDB	Micro-Min	Bayonet & Threaded	.125–.130			150 vrms		High
SDB	Sub-Min	Bayonet & Threaded	.125–.155	500 MHz		300 vrms		High
KM	Sub-Min	Bayonet	.054–.250	500 MHz		500 vrms		Med.
SMA	Sub-Min	Threaded	.047–.250	18 GHz	1.3	500 vrms	MIL-C-39012	Med.
BNC	Min.	Bayonet	.150–.250	4 GHz	1.3	500 vrms	MIL-C-39012	Low
TNC	Min.	Threaded	.150–.250	11 GHz	1.3	500 vrms	MIL-C-39012	Med.
TRB	Min.	Bayonet	.150–.250	500 MHz		400 vrms	MIL-C-49142	High
TRT	Min.	Threaded	.150–.250	500 MHz		400 vrms	MIL-C-49142	High
K-LOC	Min.	Positive-Lock	.150–.250			500 vrms	NBS-ND-549	High
SHV	Min.	Bayonet	.054–.440			3500 vrms	MIL-C-39012 NBS-ND-545	High
MHV	Min.	Bayonet	.054–.440	500 MHz		3500 vrms	MIL-C-39012	High
C	Med.	Bayonet	.350–.450	11 GHz	1.35	1000 vrms	MIL-C-39012	High
SC	Med.	Threaded	.350–.450	11 GHz	1.3	1000 vrms	MIL-C-39012	High
N	Med.	Threaded	.350–.450	11 GHz	1.3	1000 vrms	MIL-C-39012	Med.
HN	Med.	Threaded	.195–.945	4 GHz	1.3	1500 vrms	MIL-C-39012	High
UHF	Med.	Threaded	.199–.432	200 MHz		500 vrms		Low
TWIN	Med.	Threaded	.325–.625	200 MHz		500 vrms	MIL-C-3655	High
10 KV	Med.	Bayonet	.195–.250			10 KV DC		High
20 KV	Med.	Bayonet	.330–.412			20 KV DC		High
LC	Large	Threaded	.730–1.2	1 GHz		5000 & 10000 vrms	MIL-C-3650	High
LT	Large	Threaded	.730–1.2	1 GHz		5000 vrms	MIL-C-26637	High

MILITARY SPECIFICATIONS

The connector series and their applicable military specification are listed below. MIL-C-39012 has become the basic encompassing military specification for coaxial connectors. It is essentially a performance based specification that details the interface dimensions (now being covered by MIL-STD-348), material, plating and overall envelope size limits. Internal construction is left to the connector designer. It also establishes testing methods, and within specific categories, defines other parameters such as stripping dimensions for crimp conectors. In addition to the military specifications, some connectors are controlled by National Bureau of Standards drawings.

SPECIFICATION	CONNECTOR SERIES
MIL-C-39012	BNC, TNC, C, SC, N, HN, SHV, MHV, SMA
MIL-C-3655	TWIN
MIL-C-3650	LC
MIL-C-26637	LT
MIL-C-49142	TRB, TRT (Triaxial Connectors)
MIL-C-55339	Adapters – Coaxial
MIL-STD-348	RF Connector Interfaces

Coaxial cables are covered under MIL-C-17.

Kings connectors qualified to military specifications are noted in the connector listings and also appear in the latest QPL list for that specification. Qualification of new items is an ongoing activity at Kings, therefore, contact the factory for any military item not listed in the catalog.

Kings has an experienced and highly competent engineering design staff. We can meet requirements for special or tighter specifications than those specified in the military specs. We have capability to provide phase matched cable assemblies and special testing — both electrical and environmental. All hermetic seal connectors are 100% tested for leakage. All terminations, attenuators, and waveguide to coaxial adapters are 100% tested for VSWR.

Where applicable, connectors meet the solderability requirements of MIL-STD-202 method 208.

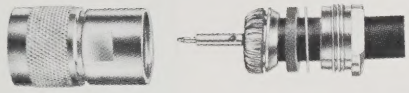
Contact the factory with your special requirements.

Kings Federal Supply Code/Cage Code number is 91836.

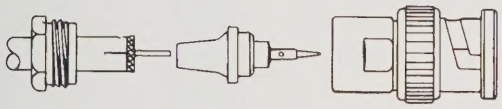
CABLE RETENTION METHODS

FIELD SERVICEABLE CONNECTORS

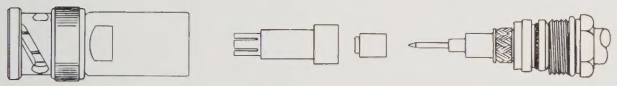
Conventional — Cabling Procedure CP-1000. The cable braid is combed out and arranged on a braid clamp, then assembled into the connector. Center contact is soldered. Typical UG connector construction.

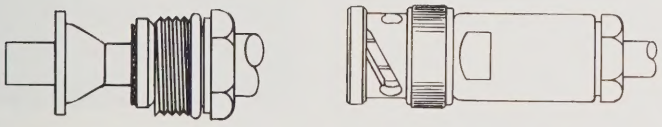


Taper Grip® — Cabling Procedure CP-2200. A simplified 3 piece construction. The cable braid and jacket are pushed over a tapered assembly, then the clamp nut is tightened. Center contact is soldered.

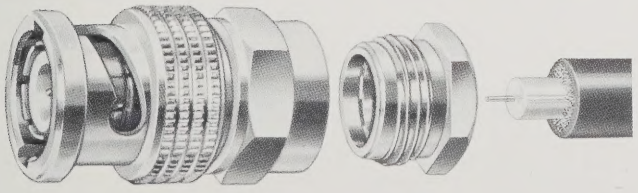


Weatherproof Taper Grip — This is a modularized design using an improved taper grip construction. It utilizes metal-to-metal cable clamping with separate sealing components. With the clamping and sealing independent of each other, excellent results are obtained in both areas. Center contact is soldered.



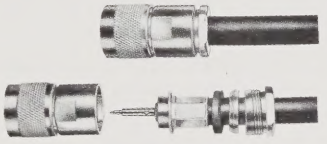


Speed Grip® — Cabling Procedure CP3200, 3300. This is a simple 2 piece construction. The stripped cable is inserted into the connector body which has a captivated contact to accept the cable center conductor, the clamp nut is then tightened.



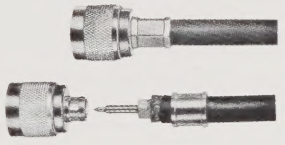
CRIMP CONNECTORS

K-Grip® — Cabling Procedure CP-200A. K-Grip is faster and simpler than conventional cabling. In K-Grip connectors, the K-Grip is inserted between the dielectric and braid, and secured by crimping the K-Grip sleeve. There is no time consuming combing operation. Center contact is crimped or soldered. K-Grip assemblies are completed in seconds and do not require highly skilled personnel. They exhibit excellent unit-to-unit uniformity and superior pull-out resistance.

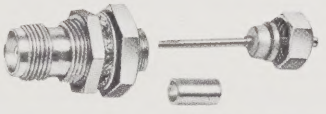


K-Grip, Jr.® & Weatherproof K-Grip, Jr.® — Cabling Procedure CP-400. K-Grip, Jr. is a smaller version of the K-Grip — almost 50% smaller and 50% lighter — in which the K-Grip is an integrated part of the K-Grip body. It incorporates all the advantages of the K-Grip with the additional advantage of permitting complete pre-trimming of the cable. K-Grip, Jr. is extremely low in installation cost and high in reliability.

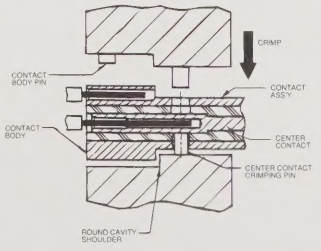
In the weatherproof K-Grip, Jr. the crimp sleeve contains a bonding sealant to assure a firm, tight seal and complete moisture protection.



Pre-Assembled K-Grip® — Cabling Procedure CP-400. Captive contact combined with the simplicity of K-Grip, Jr. assembly. The K-Grip sleeve is crimped over the cable braid, followed by crimping or soldering the contact. This rear assembly is then threaded onto the connector body.



Mono-Crimp — Mono-crimp is a K-Grip designed for two-conductor shielded cables. Both conductors are crimped in one crimping operation. The braid is crimped in a second operation as in the K-Grip, The mono-crimp design assures a reliable termination with ease of assembly. It is used in our triaxial series connectors. Manufactured under Patent No. 4804344.



TR-5®

TR-5 (tarnish resistant) plating is an electro-deposited alloy, used as a finish layer on a non-ferrous base metal part, following several intermediate platings. It is a brilliant white alloy presenting a hard, smooth, voidless surface. Like stainless steel or chrome, TR-5 forms a passive film and thus does not adversely affect materials in contact with it. In addition, it has superior resistance to tarnish and corrosion. The TR-5 provides a surface that is malleable, making possible certain assembly operations after plating, such as staking and peening, without flaking of the finish. This is not always possible with other finishes.

The TR-5 imparts a jewel-like quality which is attractive to instrument and equipment manufacturers where appearance is an important factor. It retains this appearance even after long and extensive use.

TR-5 has superior qualilties over most other finishes and has achieved wide acceptance. It is of a proprietary nature based on extensive experimentation involving various metals, plating baths and procedures and acceptance of final appearance.

SPECIFICATIONS — TR-5

Corrosion Resistance	MIL-STD-202, method 101, condition A (96 hrs)
Plating Adhesion	QQ-N-290, paragraph 3.5.2 QQ-S-365, paragraph 3.4.2
Tarnish Resistance	QQ-S-365, paragraph 3.4.5
Solderability	MIL-STD-202, method 208

FEATURES — TR-5

- **Tarnish Resistant** – In ammonium polysulfide TR-5 will not be affected.
- **Corrosion Resistant** – Salt spray fog tests prove that TR-5 is a superior coating over many other finishes.
- **Abrasion Resistant** – Tests show that TR-5 is more abrasion resistant than nickel (the ratio on the Taber Tester being approximately 3 to 2). Its hardness is approximately 50 Rockwell C.
- **Highly Wear Resistant** – TR-5 is a non-galling finish. No dangerous particles are produced during connect or disconnect, as would be the case with other finishes.
- **Solderability** – Because TR-5 does not become oxidized during storage or normal exposure, it can be soldered with rosin-core solder more easily than rhodium, nickel, or other materials which might become oxidized.
- **Passivity** – In contact with dissimilar metals, TR-5 will not accelerate the corrosion of the mating part. After prolonged exposure to corroding environments, TR-5 finished connectors can still be readily disassembled.
- **Fungus Resistant** – TR-5 finish is inorganic in nature and does not furnish a nutrient for fungus growth.

TR-4®

TR-4® is an electrolytic chromate treatment used over silver plate. It enhances the tarnish and salt spray resistance without discoloring the surface or increasing the contact resistance and without imparing solderability. TR-4 is primarily used to extend shelf life.

In addition to TR-5 and military specification platings, Kings can supply almost any other desired finish specified by a customer.

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

BNC series RF connectors are the most popular miniature size connectors for coaxial cables from .150" to .250" OD, however designs accommodate .078" to .437" cables. The BNC connector is a 50 ohm constant impedance connector with a frequency range of 0 to 4 GHz. Coupling is a quick connect/disconnect bayonet particularly useful in test equipment, and is weatherproof. Items qualified to MIL-C-39012 are included in the listings, and also appear on the latest QPL list for MIL-C-39012.

All BNC connectors listed, except where noted, are recognized under the Component Program of Underwriters Laboratories, Inc.

SPECIFICATIONS

ELECTRICAL

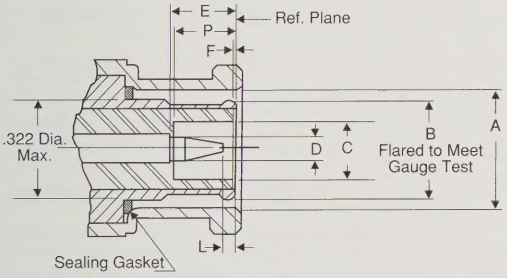
Nominal Impedance	50 ohms
Frequency Range	0-4 GHz
Voltage Rating	500 volts rms
Dielectric Withstanding Voltage	1500 volts rms
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.30 max. 0-4 GHz
Contact Resistance (MIL-C-39012 cable connectors)	
Center Contacts	1.5 milliohms
Outer Contact (silver plate)	.2 milliohms
Insertion Loss (MIL-C-39012 cable connectors)	.2dB max. at 3 GHz

Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

INTERFACE

Per MIL-C-39012 or MIL-STD-348 as applicable

PLUG



Dim Ltr	Minimum	Maximum	Dim Ltr	Minimum	Maximum
	Dimensions in inches with metric equivalents (mm) in parentheses				
A	.385 (9.78)	.390 (9.91)	E	.210 (5.33)	.230 (5.84)
B	Gauge Test	Gauge Test	F	.006 (0.15)	
C	.190 (4.83)		L	.003 (0.08)	
D	.052 (1.32)	.054 (1.37)	P	.208 (5.28)	.228 (5.79)

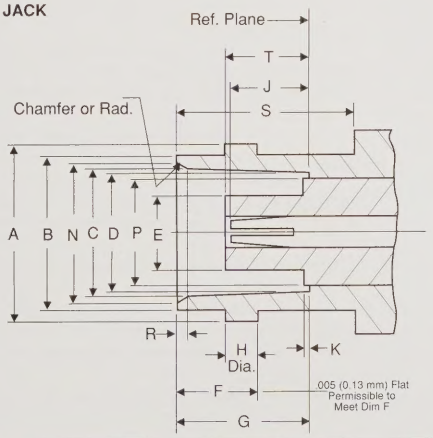
ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to +85°C) Polypropelene Insulators: –50°F to +250°F (–46°C to +120°C)
Vibration	MIL-STD-202 Method 204, Test Cond. B
Shock	MIL-STD-202 Method 213, Test Cond. B
Corrosion (salt spray)	MIL-STD-202 Method 101, Test Cond. B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.

MECHANICAL

Mating	2 stud bayonet coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention	
Non-crimp	40 lbs. min.
Crimp	10 to 40 lbs. depending on cable size.
Center Contact Retention	6 lbs. min. axial force. Applicable to captivated center contact connectors only.
Connector Durability	500 cycles min.

JACK



Dim Ltr	Minimum	Maximum	Dim Ltr	Minimum	Maximum
A	.432 (10.97)	.436 (11.07)	J	.186 (4.72)	.206 (5.23)
B	.378 (9.60)	.382 (9.70)	K		.006 (0.15)
C	.327 (8.31)	.333 (8.46)	N	.346 (8.79)	.356 (9.04)
D	.319 (8.10)	.321 (8.15)	P		.256 (6.50)
E		.186 (4.72)	R	.015 (0.38)	.030 (0.76)
F	.204 (5.18)	.208 (5.28)	S	.414 (10.52)	
G	.327 (8.31)	.335 (8.51)	T	.188 (4.78)	.208 (5.28)
H	.075 (1.91)	.081 (2.06)			

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Stainless Steel, QQ-S-763
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	1. Beryllium Copper, QQ-C-530, Cond. HT 2. Brass, QQ-B-626, Alloy 360, 1/2 hard
Insulators	1. PTFE, ASTM D1457 2. Rexolite 1422, MIL-P-77, Type E-2 3. Nylon, Type FM-10001 4. Polyethylene, High Density MIL-P-22748, Class B, Grade 5 5. Polypropelene PP-1052
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50
Boots	Buna N – 40 durometer

FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0001" (.0025mm) min. hard gold plate, MIL-G-45204B 2. All other items .0002" (.005mm) min. silver plate, QQ-S-365A, plus TR-4® electrolytic chromate treatment.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate, electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

CABLE GROUPS — RG/U, M17		
A		178, 178A, 178B, 196, 196A, M17/93-RG178, M17/93-00001
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001, M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
C	C-1	122, M17/54-RG122
	C-2	180, 180A, 180B, 195, 195A, M17/95-RG180, M17/137-00001
	C-3	Essex 21-597, Belden 8218
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59, M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
H		302, M17/109-RG302
K	K-1	5, 5A, 5B, 21, 21A, M17/73-RG212, M17/162-00001
	K-2	6, 6A, M17/2-RG6
	K-3	143, 143A, 212, 222, M17/112-RG304, M17/73-RG212, M17/162-00001
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
Q		Belden 8281, WE 724

***For these cables, crimping the center contact is not recommended when crimp contact is indicated. (Cable Groups)**

PLUGS

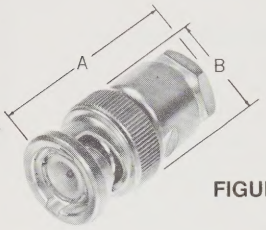


FIGURE 1

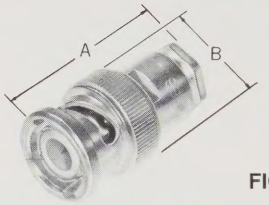


FIGURE 2

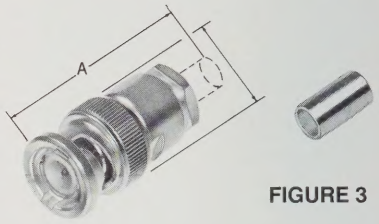


FIGURE 3

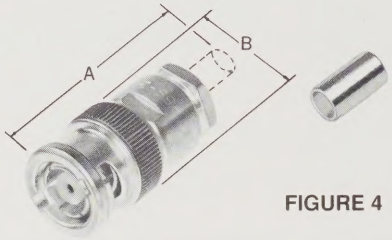


FIGURE 4

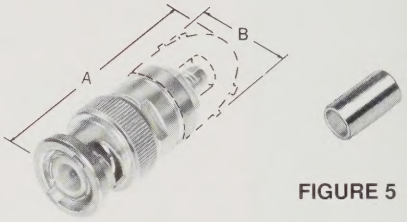


FIGURE 5

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
						A		B					
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	CABLE TRIM CODE			
B	**KC-59-89**	**KC-59-284**		1		**1.08**	27.4	**0.56**	14.2	1004.1			
C	**KC-59-546**		M39012/16-0103	1		**1.08**	27.4	**0.56**	14.2	1050			
C	**KC-59-242**			1	Gold Plated Contact	**1.09**	27.7	**0.56**	14.2	1004.2			
DE	**UG-88/U**	**KC-59-139**		2	Brass Outer Cont., Does not accept RG-55A or 223/U	**1.05**	26.7	**0.56**	14.2	R			
DE	**UG-88B/U**			1		**1.05**	26.7	**0.56**	14.2	R			
DE	**UG-88C/U**	**KC-59-141**		1	Brass Outer Cont., No Slipwasher	**1.06**	26.9	**0.56**	14.2	1004			
DE	**UG-88D/U**	**KC-59-325**		1		**1.08**	27.4	**0.56**	14.2	1004			
DE	**UG-88E/U**	**KC-59-145**		1		**1.08**	27.4	**0.56**	14.2	1004			
DE	**UG-88F/U**	**KC-59-326**		1		**1.13**	28.7	**0.56**	14.2	1004			
DE	**KC-59-544**	**KC-59-544-M06**	M39012/16-0101	1		**1.08**	27.4	**0.56**	14.2	1050			
DE	**KC-59-244**			1	Gold Plated Contact	**1.09**	27.7	**0.56**	14.2	1004			
DE	**KC-59-274**	**KC-59-413**		1	Gold Plated Cont., Brass Outer Cont.	**1.09**	27.7	**0.56**	14.2	1004			
G	**KC-59-545**	**KC-59-545-M06**	M39012/16-0102	1		**1.08**	27.4	**0.56**	14.2	1050			
G	**UG-260/U**	**KC-59-159**		1	Rexolite insulation, Brass Outer Cont.	**1.05**	26.7	**0.56**	14.2	R			
G	**UG-260B/U**	**KC-59-122**		1	Brass Outer Cont., No Slipwasher	**1.06**	26.9	**0.56**	14.2	1004.3			
G	**UG-260C/U**	**KC-59-328**		1		**1.08**	27.4	**0.56**	14.2	1004.3			
G	**UG-260D/U**	**KC-59-147**		1		**1.08**	27.4	**0.56**	14.2	1004.3			
G	**KC-59-06**	**KC-59-241**		1	Captive Cont., Brass Outer Cont.	**1.08**	27.4	**0.56**	14.2	1004.3			
G	**KC-59-243**	**KC-59-296**		1	Gold Plated Contact	**1.09**	27.7	**0.56**	14.2	1004.3			
M	**KC-59-86**			1		**1.69**	42.9	**0.75**	19.1	209A			
MN	**KC-59-248**	**KC-59-248-M06**		1		**1.66**	42.2	**0.75**	19.1	1005			
MN	**UG-959A/U**	**KC-59-174**		1	Brass Outer Contact	**1.66**	42.2	**0.75**	19.1	1005			
N-1	**KC-59-85**			1	Gold Plated Contact	**1.69**	42.9	**0.75**	19.1	209A			
.141SR RG-402/U		**KC-59-588-M06**		NS	Gold Plated Contact	**0.75**	19.1	**0.56**	14.2	3-81			

R — request from factory

SEE PAGE 5 FOR CABLE GROUPS.

K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
						A		B					
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	CABLE TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
A	**KC-59-136**	**KC-59-175**		3	Crimp Contact	**1.08**	27.4	**0.56**	14.2	228A.1	KTH-2008	KTJ-39	KTD-6
B	**KC-59-113**	**KC-59-285**		3	Crimp Contact	**1.09**	27.7	**0.56**	14.2	225A.3	KTH-2024		KTD-6
B	**KC-59-239**			4	Polarized	**1.09**	27.7	**0.56**	14.2	225A.3	KTH-2024		KTD-6
C-1,-2	**KC-59-111**		M39012/16B0009	3		**1.15**	29.2	**0.56**	14.2	226A.2	KTH-2007	KTJ-19	KTD-89
D	**KC-59-24**			3		**1.61**	40.9	**0.53**	13.5	R	KTH-2001		KTD-6
D	**KC-59-61**	**KC-59-125**	M39012/16B0004	3	Crimp Contact	**1.17**	29.7	**0.56**	14.2	201A	KTH-2001	KTJ-17	KTD-77
G-1	**KC-59-64**	**KC-59-130**	M39012/16B0008	3	Crimp Contact	**1.17**	29.7	**0.56**	14.2	201A.5	KTH-2002	KTJ-17	KTD-78

PRE-ASSEMBLED K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
						A		B					
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B	**KC-59-233**	**KC-59-288**		5	Captive Contact, with Boot	**1.91**	48.5	**0.56**	14.2	425	KTH-2024	KTJ-42	
D	**KC-59-199**	**KC-59-121**		5	Captive Contact, with Boot	**1.91**	48.5	**0.56**	14.2	420	KTH-2001	KTJ-5	KTD-75
D	**KC-59-184**			5	Captive Contact, Gold Plated, with Boot	**1.91**	48.5	**0.56**	14.2	420	KTH-2001	KTJ-5	KTD-75

TAPER GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
						A		B					
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	CABLE TRIM CODE			
RG-58/U		**KC-59-457-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2201			
RG-58, 142, 400/U		**KC-59-672-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2207			
RG-59/U		**KC-59-466**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.54**	13.7	2201			
RG-59/U		**KC-59-518**		1	Captive Cont., Silver Plated, Brass Outer Cont.	**1.09**	27.7	**0.56**	14.2	2201			
RG-59/U		**KC-59-673-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2207			
RG-59/U RG-62/U		**KC-59-657-M06**		1	Speed Grip; Polypropelene Ins.	**1.07**	27.2	**0.56**	14.2	3300			
RG-122/U		**KC-59-540**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2201			
RG-174/U	**KC-59-491-MC7**	**KC-59-491**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2201			
RG-174/U		**KC-59-674-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2207			
RG-223/U		**KC-59-513**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.54**	13.7	2201			
RG-307A/U	**KC-59-573-M07**			1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2205			
BELDEN 8281		**KC-59-512**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.54**	13.7	2202			
BELDEN 9259		**KC-59-575-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.54**	13.7	2201			
BELDEN 9383		**KC-59-554-M06**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2208			
BELDEN 9268 IBM 52527-50		**KC-59-484**		1	Captive Contact, Gold Plated	**1.09**	27.7	**0.56**	14.2	2203			
BERK-TEK BTDC-59-TT		**KC-59-665-M06**		1	Speed Grip; Polypropelene Ins.	**1.07**	27.2	**0.56**	14.2	3200			

R — request from factory.

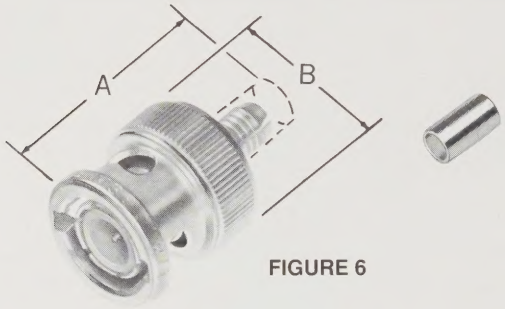


FIGURE 6

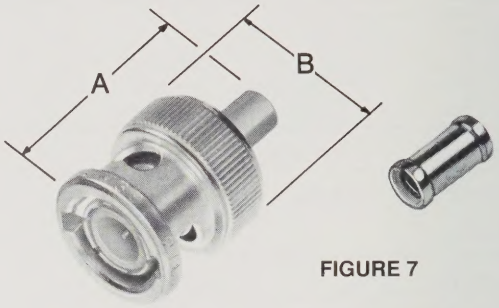


FIGURE 7

K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		CABLE TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm				
B		**KC-59-362**		6	Crimp Contact, Gold Plated	**1.00**	27.9	**0.56**	14.2	402	KTH-2021	KTJ-100	KTD-145
B	**KC-59-557-M07**	**KC-59-557-M06**		6	Crimp Contact	**1.02**	25.9	**0.56**	14.2	5407	KTH-2138	KTJ-174	KTD-218
B-1	**KC-59-95**	**KC-59-152**		6		**0.94**	23.9	**0.56**	14.2	406	KTH-2032	KTJ-38	
C-1	**KC-59-107**	**KC-59-169**		6		**0.97**	24.6	**0.56**	14.2	409	KTH-2007	KTJ-41	KTD-98
C-1	**KC-59-415**		M39012/16-0501	6	Beryllium Copper Outer Contact, Crimp & Captive Contact	**1.12**	28.5	**0.56**	14.2	465	KTH-2007	KTJ-116	KTD-161
C-2	**KC-59-416**	**KC-59-416-M06**	M39012/16-0502	6		**1.12**	28.5	**0.56**	14.2	465	KTH-2007	KTJ-116	KTD-161
C-3		**KC-59-223**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	409	KTH-2007	KTJ-41	KTD-98
C-3	**KC-59-306**	**KC-59-307**		6	Crimp & Captive Contact	**0.99**	25.1	**0.56**	14.2	409	KTH-2007	KTJ-41	KTD-98
D	**KC-59-78**	**KC-59-123**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
D	**KC-59-98**		M39012/16B0004	6		**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
D	**KC-59-290**	**KC-59-291**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
D	**KC-59-347**	**KC-59-400**	M39012/16-0013	6	Beryllium Copper Outer Contact, Crimp & Captive Contact	**1.10**	27.9	**0.57**	14.5	465	KTH-2001	KTJ-113	KTD-166
D	**KC-59-414**	**KC-59-414-M06**	M39012/16-0504	6		**1.12**	28.5	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166
D	**KC-59-421**		M39012/16-0013	6	Brass Outer Cont., Crimp & Captive Cont.	**1.10**	27.9	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166
D		**KC-59-632-M06**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E	**KC-59-303**	**KC-59-279**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E	**KC-59-417**	**KC-59-417-M06**	M39012/16-0503	6		**1.12**	28.5	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166
E-1	**KC-59-80**	**KC-59-162**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E-1	**KC-59-115**		M39012/16B0005	6		**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E-1	**KC-59-346**	**KC-59-399**	M39012/16-0014	6	Beryllium Copper Outer Contact, Crimp & Captive Contact	**1.10**	27.9	**0.57**	14.5	465	KTH-2001	KTJ-113	KTD-166
E-1	**KC-59-422**		M39012/16-0014	6	Brass Outer Contact, Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166

SEE PAGE 5 FOR CABLE GROUPS.

K-GRIP, JR. CONSTRUCTION — Continued

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		CABLE TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm				
E-2	**KC-59-104**	**KC-59-167**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E-2	**KC-59-116**		M39012/16B0007	6		**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
G-1	**KC-59-79**	**KC-59-128**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
G-1	**KC-59-293**	**KC-59-294**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
G-1	**KC-59-348**		M39012/16-0015	6	Beryllium Copper Outer Contact, Crimp & Captive Contact	**1.10**	27.9	**0.57**	14.5	465	KTH-2002	KTJ-113	KTD-184
G-1	**KC-59-423**		M39012/16-0015	6	Brass Outer Contact, Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	465	KTH-2002	KTJ-113	KTD-184
G-1		**KC-59-465**		6	Crimp & Captive Contact, Gold Plated	**1.10**	27.9	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
G-2	**KC-59-81**	**KC-59-135**		6		**1.10**	27.9	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
K	**KC-59-161**	**KC-59-161-M06**		6		**1.10**	27.9	**0.56**	14.2	424	KTH-2012	KTJ-74	KTD-30
Q	**KC-59-180**	**KC-59-181**		6	Crimp Contact	**1.10**	27.9	**0.56**	14.2	424	KTH-2012	KTJ-43	KTD-30
Q	**KC-59-300**	**KC-59-299**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	424	KTH-2012	KTJ-43	KTD-30
Q		**KC-59-616-M06**		6	Crimp & Captive Contact, Gold Plated	**1.10**	27.9	**0.56**	14.2	424	KTH-2012	KTJ-43	KTD-30
BELDEN 8212		**KC-59-403**		6	Crimp Contact, Gold Plated	**1.11**	28.2	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
BELDEN 8213		**KC-59-485**		6	Crimp & Captive Contact, Gold Plated	**1.78**	45.2	**0.56**	14.2	5402	KTH-2004	KTJ-150	KTD-138
BELDEN 8279		**KC-59-397**		6		**1.11**	28.2	**0.56**	14.2	477	KTH-2002	KTJ-134	KTD-26
BELDEN 9248		**KC-59-593-M06**		6	Crimp & Captive Contact, Gold Plated	**1.10**	27.9	**0.56**	14.2	5425	KTH-2010	KTJ-184	KTD-228
BELDEN 9259		**KC-59-482**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26
CANARE 3C2VS		**755-25-9**		6	Crimp & Captive Contact	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-25	KTD-242
CANARE 5C2VS BELDEN 88281		**755-18-9**		6	Crimp & Captive Contact	**1.11**	28.2	**0.56**	14.2	424	KTH-2010	KTJ-43	KTD-30
RAYCHEM EPD0810		**KC-59-509**		6	Crimp & Captive Contact, Gold Plated	**0.99**	25.2	**0.56**	14.2	409	KTH-2007	KTJ-41	KTD-98
RG-180/U		**KC-59-655-M06**		6	Crimp Contact	**0.98**	24.9	**0.57**	14.5	409	KTH-2007	KTJ-41	KTD-98
TIMES FM-59		**KC-59-486**		6	Crimp & Captive Contact, Gold Plated	**1.10**	27.9	**0.56**	14.2	465	KTH-2002	KTJ-113	KTD-184

WEATHERPROOF K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		CABLE TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm				
B	**KC-59-280**	**KC-59-281**		7	Crimp & Captive Contact	**1.06**	26.9	**0.56**	14.2	402	KTH-2081	KTJ-100	KTD-145
D	**KC-59-195**	**KC-59-196**	M39012/16B0004	7	Crimp Contact	**1.12**	28.5	**0.56**	14.2	401	KTH-2061	KTJ-57	KTD-25
D		**KC-59-411**		7	Crimp & Captive Contact	**1.14**	29.0	**0.56**	14.2	5401	KTH-2061	KTJ-149	KTD-166
D	**KC-59-502**	**KC-59-461**		7	Crimp & Captive Contact, Gold Plated	**1.10**	27.9	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
E	**KC-59-218**		M39012/16B0005	7	Crimp Contact	**1.09**	27.7	**0.56**	14.2	401	KTH-2061	KTJ-57	KTD-25
G	**KC-59-220**	**KC-59-232**	M39012/16B0008	7	Crimp Contact	**1.11**	28.2	**0.56**	14.2	401	KTH-2062	KTJ-57	KTD-26

ANGLE PLUGS

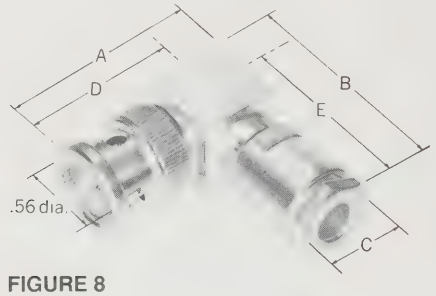


FIGURE 8

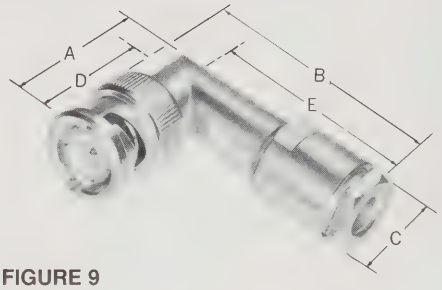


FIGURE 9

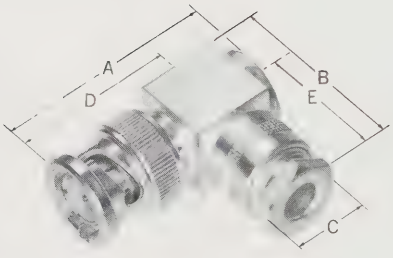


FIGURE 10

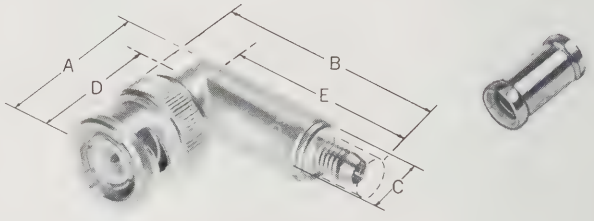


FIGURE 11

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	CABLING CBL. TRIM CODE
DE	**UG-913/U**			9	Brass Outer Cont.; No Slipwasher	**1.09**	27.7	**1.59**	40.4	**0.50**	12.7	**0.84**	21.3	**1.33**	33.8	1004
DE	**UG-913A/U**	**KC-59-179**		9		**1.09**	27.7	**1.59**	40.4	**0.50**	12.7	**0.84**	21.3	**1.33**	33.8	1004
DE	**KC-59-533**		M39012/20-0101	8		**1.13**	28.7	**1.53**	38.9	**0.50**	12.7	**0.88**	22.4	**1.25**	31.8	1050
DE	**KC-59-66**	**KC-59-66-M06**		10		**1.23**	31.2	**1.05**	26.7	**0.50**	12.7	**0.92**	23.4	**0.77**	18.0	1008
GH	**KC-59-46**			9		**1.09**	27.7	**1.61**	40.9	**0.50**	12.7	**0.84**	21.3	**1.33**	33.8	1004.3
GH	**KC-59-19**			9	Captive Contact	**1.09**	27.7	**1.59**	40.4	**0.50**	12.7	**0.84**	21.3	**1.31**	33.3	1004.3
GH	**KC-59-68**			10		**1.24**	31.5	**1.03**	26.2	**0.50**	12.7	**0.93**	23.6	**0.75**	19.1	1008

WEATHERPROOF K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B		**KC-59-287**		11		**1.04**	26.4	**1.40**	35.6	**0.37**	9.4	**0.84**	21.3	**1.12**	28.5	453	KTH-2076	KTJ-100	KTD-145
C		**KC-59-273**		11		**1.03**	26.2	**1.60**	40.6	**0.37**	9.4	**0.84**	21.3	**1.32**	33.5	401	KTH-2067	KTJ-93	KTD-139
D	**KC-59-197**	**KC-59-198**	M39012/20B0002	11		**1.04**	26.4	**1.65**	41.9	**0.37**	9.4	**0.84**	21.3	**1.34**	34.0	401	KTH-2061	KTJ-57	KTD-25
E	**KC-59-246**		M39012/20-0003	11	Crimp Contact	**1.03**	26.2	**1.62**	41.2	**0.37**	9.4	**0.84**	21.3	**1.34**	34.0	401	KTH-2061	KTJ-57	KTD-25

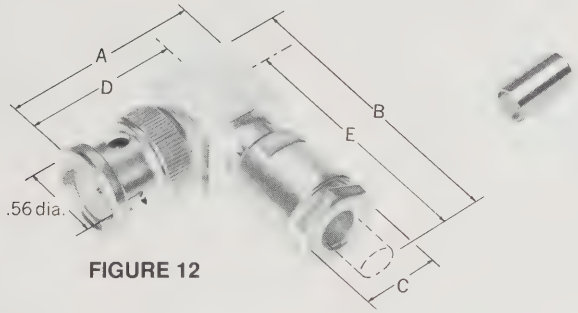


FIGURE 12

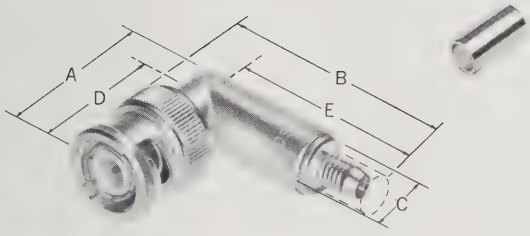


FIGURE 13

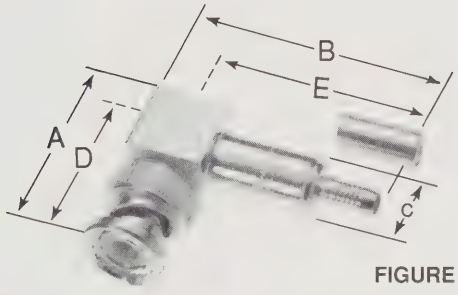


FIGURE 14

SEE PAGE 5 FOR CABLE GROUPS.

K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS										CABLING			
						A		B		C		D		E		CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm				
B-1	**KC-59-109**	**KC-59-318**		13	Crimp Contact	**1.03**	26.2	**1.43**	36.3	**0.37**	9.4	**0.84**	21.3	**1.14**	29.0	406	KTH-2032	KTJ-38	
C-1	**KC-59-108**	**KC-59-171**		13		**1.03**	26.2	**1.48**	37.6	**0.37**	9.4	**0.84**	21.3	**1.19**	30.2	409	KTH-2007	KTJ-41	KTD-98
C-1	**KC-59-408**		M39012/20-0501	14	Crimp Contact	**1.14**	29.0	**1.79**	45.5	**0.37**	9.4	**0.89**	22.6	**1.51**	38.4	465	KTH-2007	KTJ-116	KTD-161
C-2	**KC-59-418**	**KC-59-418-M06**	M39012/20-0502	14	Crimp Contact	**1.13**	28.7	**1.70**	43.2	**0.37**	9.4	**0.89**	22.6	**1.42**	36.1	465	KTH-2007	KTJ-113	KTD-166
D	**KC-59-101**	**KC-59-153**		13	Crimp Contact	**1.03**	26.2	**1.61**	40.9	**0.37**	9.4	**0.84**	21.3	**1.32**	33.5	401	KTH-2001	KTJ-57	KTD-25
D	**KC-59-352**	**KC-59-401**	M39012/20-0006	14	Crimp Contact	**1.14**	29.0	**1.36**	34.5	**0.44**	11.2	**0.89**	22.6	**1.08**	27.4	465	KTH-2001	KTJ-113	KTD-166
D	**KC-59-420**	**KC-59-420-M06**	M39012/20-0504	14	Crimp Contact	**1.13**	28.7	**1.70**	43.2	**0.37**	9.4	**0.89**	22.6	**1.42**	36.1	465	KTH-2001	KTJ-113	KTD-166
E	**KC-59-419**		M39012/20-0503	14		**1.13**	28.7	**1.70**	43.2	**0.37**	9.4	**0.89**	22.6	**1.42**	36.1	465	KTH-2001	KTJ-113	KTD-166
E-1	**KC-59-103**	**KC-59-270**		13	Crimp Contact	**1.03**	26.2	**1.60**	40.6	**0.37**	9.4	**0.84**	21.3	**1.32**	33.5	401	KTH-2001	KTJ-57	KTD-25
E-1	**KC-59-353**	**KC-59-407**	M39012/20-0007	14	Crimp Contact	**1.14**	29.0	**1.36**	34.5	**0.44**	11.9	**0.89**	22.6	**1.08**	27.4	465	KTH-2001	KTJ-113	KTD-166
G-1	**KC-59-102**	**KC-59-222**		13		**1.03**	26.2	**1.60**	40.6	**0.37**	9.4	**0.84**	21.3	**1.32**	33.5	401	KTH-2002	KTJ-57	KTD-26
G-1	**KC-59-409**			14		**1.14**	29.0	**1.66**	42.2	**0.37**	9.4	**0.89**	22.6	**1.38**	35.1	465	KTH-2002	KTJ-113	KTD-184

K-GRIP CONSTRUCTION

D	**KC-59-224**		M39012/20B0002	12	Crimp Cont., Gold Pltd.	**1.14**	29.0	**1.44**	36.6	**0.50**	12.7	**0.89**	22.6	**1.16**	29.5	201A	KTH-2001	KTJ-17	KTD-77

JACKS

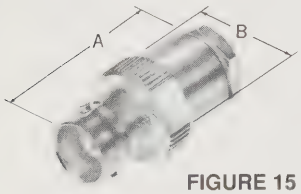


FIGURE 15

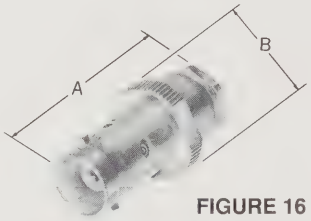


FIGURE 16

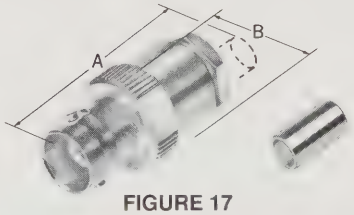


FIGURE 17

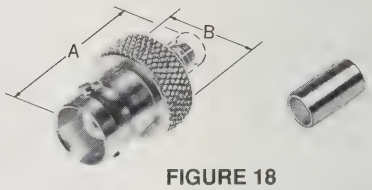


FIGURE 18

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	CABLING CABLE TRIM CODE			
B	**KC-39-30**			15		**1.15**	29.2	**0.56**	14.2	1004.1			
C	**KC-39-121**		M39012/17-0103	15		**1.15**	29.2	**0.56**	14.2	1050			
DE	**KC-39-03**		M39012/17-0101	15		**1.15**	29.2	**0.56**	14.2	1050			
DE	**UG-89/U**			16	Does not accept RG-55A or 223/U	**1.14**	29.0	**0.56**	14.2	R			
DE	**UG-89B/U**			15	No Slipwasher	**1.13**	28.7	**0.56**	14.2	1004			
DE	**UG-89C/U**	**KC-39-43**		15		**1.15**	29.2	**0.56**	14.2	1004			
G	**UG-261/U**			16	Rexolite Insulation	**1.14**	29.0	**0.56**	14.2	R			
G	**UG-261B/U**			15	No Slipwasher	**1.13**	28.7	**0.56**	14.2	1004.3			
G	**UG-261C/U**	**KC-39-54**		15		**1.15**	29.2	**0.56**	14.2	1004.3			
G	**KC-39-120**		M39012/17-0102	15		**1.15**	29.2	**0.56**	14.2	1050			

TAPER GRIP CONSTRUCTION

DE		**KC-39-129-M06**		15	Captive Contact, Gold Plated	**1.16**	29.5	**0.58**	14.7	2201			
RG-59/U		**KC-39-130-M06**		15	Captive Contact, Gold Plated	**1.17**	29.7	**0.58**	14.7	2201			
RG-223/U		**KC-39-131-M06**		15	Captive Contact, Gold Plated	**1.17**	29.7	**0.58**	14.7	2201			

K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	CABLING CABLE TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B-1	**KC-39-34**	**KC-39-50**		18	Crimp Contact	**0.97**	24.6	**0.56**	14.2	406	KTH-2032	KTJ-38	
C-1	**KC-39-104**		M39012/17-0501	18	Crimp & Captive Contact	**1.18**	30.0	**0.56**	14.2	465	KTH-2007	KTJ-116	KTD-161
C-2	**KC-39-105**		M39012/17-0502	18	Crimp & Captive Contact	**1.18**	30.0	**0.56**	14.2	465	KTH-2007	KTJ-116	KTD-161
D	**KC-39-26**	**KC-39-38**		18		**1.17**	29.7	**0.56**	14.2	401	KTH-2001	KTJ-57	KTD-25
D	**KC-39-103**		M39012/17-0504	18	Crimp & Captive Contact	**1.18**	30.0	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166
E-1	**KC-39-106**		M39012/17-0503	18	Crimp & Captive Contact	**1.18**	30.0	**0.56**	14.2	465	KTH-2001	KTJ-113	KTD-166
G-1	**KC-39-28**	**KC-39-45**		18	Crimp Contact	**1.17**	29.7	**0.56**	14.2	401	KTH-2002	KTJ-57	KTD-26

K-GRIP CONSTRUCTION

D	**KC-39-20**	**KC-39-40**	M39012/17B0004	17		**1.22**	31.0	**0.56**	14.2	201A	KTH-2001	KTJ-17	KTD-77

R — request from factory

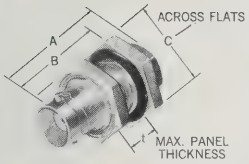


FIGURE 19

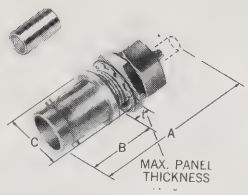


FIGURE 20

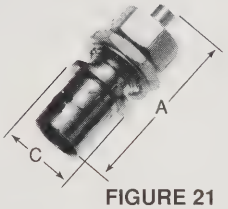
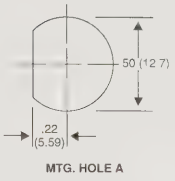


FIGURE 21



SEE PAGE 5 FOR CABLE GROUPS.

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE
A	**KC-19-110**	**KC-19-110-M06**		19	Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1012
A	**KC-19-118**			19	Rear Mtg., Captive Cont.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1012
B	**KC-19-54**	**KC-19-175**		19	Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1004.1
DE	**KC-19-282**		M39012/19-0101	19	Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1050
DE	**UG-909/U**	**KC-19-196**		19	Rear Mtg., No Slipwasher	**1.13**	28.7	**0.68**	17.3	**0.69**	17.5	**0.231**	5.9	A	1004
DE	**UG-909A/U**	**KC-19-82**		19	Rear Mtg.	**1.15**	29.2	**0.68**	17.3	**0.69**	17.5	**0.116**	3.0	A	1004
DE	**UG-909B/U**	**KC-19-197**		19	Rear Mtg., External Tooth Lockwasher	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.223**	5.7	A	1004
G	**KC-19-283**		M39012/19-0102	19	Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1050
G	**UG-910B/U**	**KC-19-268**		19	Rear Mtg., External Tooth Lockwasher	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.223**	5.7	A	1004.3

TAPER GRIP CONSTRUCTION

B		**KC-19-299-M06**		19	Rear Mtg., Captive Cont., Gold Plated	**1.15**	29.2	**0.81**	20.6	**0.68**	17.3	**0.241**	6.1	A	2201
B-1		**KC-19-302-M06**		19	Captive Cont., Gold Plated Isolated Ground, Rear Mtg.	**1.15**	29.2	**0.79**	20.1	**0.75**	19.1	**0.187**	4.8	B	2201
MIL-C-17/ 152-00001	**752-8-5**			19	Rear Mtg., Captive Cont., Gold Plated	**1.15**	29.2	**0.81**	20.6	**0.63**	16.0	**0.241**	6.1	A	2201

PRE-ASSEMBLED K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B		**KC-19-139**		20	Front Mtg.	**1.25**	31.8	**0.50**	12.7	**0.50**	12.7			C	430	KTH-2006	KTJ-42	KTD-111
B		**KC-19-152**		20	Front Mtg.	**1.34**	34.0	**0.56**	14.2	**0.50**	12.7	**0.149**	3.8	C	430	KTH-2024	KTJ-42	KTD-111
C		**KC-19-178**		20	Front Mtg.	**1.41**	35.8	**0.56**	14.2	**0.50**	12.7	**0.160**	4.1	C	436	KTH-2007	KTJ-39	KTD-152
D		**KC-19-161**		20	Front Mtg.	**1.53**	38.9	**0.56**	14.2	**0.50**	12.7	**0.160**	4.1	C	436	KTH-2001	KTJ-83	KTD-122
.085 SR RG-405/U		**KC-19-258**		21	Front Mtg., Captive Cont., Gold Plated	**1.14**	29.0			**0.50**	12.7			C	2101			

BULKHEAD JACKS

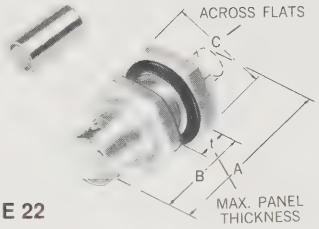


FIGURE 22

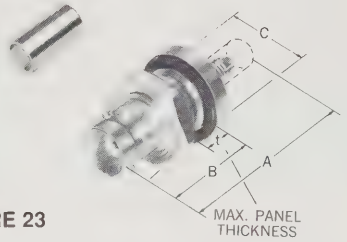


FIGURE 23

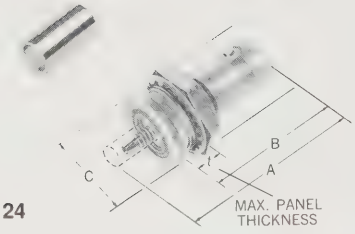
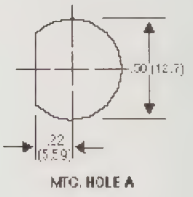


FIGURE 24



MTG. HOLE A

K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS										CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		C		t		MTG. HOLE	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm	in	mm	in	mm					
B	**KC-19-323-M07**	**KC-19-323-M06**		23	Rear Mtg., Crimp Cont., Gold Pltd.	**1.38**	35.1	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	5417	KTH-2138	KTJ-175	KTD-219
B		**KC-19-138**		24	Rear Mtg., Isolated Ground	**1.26**	32.0	**0.88**	22.4	**0.63**	16.0	**0.173**	4.4	A	431	KTH-2032	KTJ-59	KTD-113
B-1	**KC-19-68**	**KC-19-93**		23	Rear Mtg., Crimp Contact	**1.37**	34.9	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	407	KTH-2032	KTJ-47	KTD-101
B-2	**KC-19-293-M07**	**KC-19-293-M06**		23	Rear Mtg., Crimp Contact	**1.38**	35.1	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	5417	KTH-2140	KTJ-175	KTD-219
C	**KC-19-67**	**KC-19-96**		23	Rear Mtg.	**1.43**	36.3	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	408	KTH-2007	KTJ-52	KTD-107
C-1	**KC-19-247**		M39012/19-0501	23	Rear Mtg., Crimp & Capt. Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2007	KTJ-116	KTD-161
C-2	**KC-19-248**	**KC-19-248-M06**	M39012/19-0502	23	Rear Mtg., Crimp & Capt. Cont.	**1.40**	35.6	**0.81**	20.6	**0.63**	16.0	**0.241**	6.1	A	465	KTH-2007	KTJ-116	KTD-161
D	**KC-19-61**	**KC-19-83**		23	Rear Mtg.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	405	KTH-2001	KTJ-58	KTD-43
D	**KC-19-207**	**KC-19-235**	M39012/19-0013	23	Rear Mtg.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
D	**KC-19-250**		M39012/19-0504	23	Rear Mtg., Crimp & Capt. Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.6	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
E	**KC-19-249**		M39012/19-0503	23	Rear Mtg., Crimp & Capt. Cont.	**1.40**	35.6	**0.81**	20.6	**0.63**	16.0	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
E-1	**KC-19-64**	**KC-19-140**		23	Rear Mtg.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	405	KTH-2001	KTJ-58	KTD-43
E-1	**KC-19-208**	**KC-19-238**	M39012/19-0014	23	Rear Mtg., Crimp & Capt. Cont.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
G-1	**KC-19-62**	**KC-19-89**		23	Rear Mtg., Crimp Contact	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	405	KTH-2002	KTJ-58	KTD-42
G-1	**KC-19-172**	**KC-19-182**		23	Rear Mtg., Crimp & Capt. Cont.	**1.36**	34.5	**0.68**	17.3	**0.69**	17.5	**0.12**	2.9	A	450	KTH-2002	KTJ-83	KTD-144
G-1	**KC-19-209**		M39012/19-0015	23	Rear Mtg., Crimp & Capt. Cont.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2002	KTJ-113	KTD-184
G-1		**KC-19-265**		24	Rear Mtg., Crimp & Capt. Cont.	**1.41**	35.8	**0.86**	21.8	**0.63**	16.0	**0.17**	4.4	A	465	KTH-2002	KTJ-113	KTD-184
Q	**KC-19-114**	**KC-19-115**		23	Rear Mtg.	**1.52**	38.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	418	KTH-2012	KTJ-76	KTD-114

K-GRIP CONSTRUCTION

B	**KC-19-60**	**KC-19-87**		22	Rear Mtg.	**1.14**	29.0	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	225A.3	KTH-2024		KTD-77
D	**KC-19-50**	**KC-19-73**	M39012/19B0003	22	Rear Mtg.	**1.24**	31.5	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	201A	KTH-2001	KTJ-17	KTD-77
E-1	**KC-19-51**	**KC-19-74**	M39012/19B0004	22	Rear Mtg.	**1.24**	31.5	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	201A	KTH-2001	KTJ-17	KTD-77

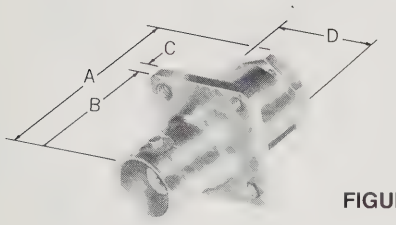


FIGURE 25

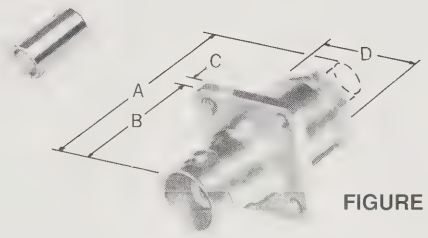
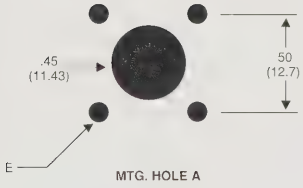


FIGURE 26



SEE PAGE 5 FOR CABLE GROUPS.

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS												CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		C		D		E		MTG. HOLE		CABLE TRIM CODE			
						in	mm	in	mm	in	mm	in	mm	in	mm						
B	**KC-19-94**	**KC-19-174**		25		**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.109**	2.8	A		1004.1			
C	**KC-19-38**		M39012/18-0103	25	Captive Contact	**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.120**	3.1	A		1004.2			
DE	**KC-19-02**		M39012/18-0102	25	Captive Contact	**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.120**	3.1	A		1004			
DE	**UG-291B/U**			25		**1.13**	28.7	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.120**	3.1	A		1004			
DE	**UG-291C/U**	**KC-19-81**		25		**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.120**	3.1	A		1004			
G	**KC-19-279**		M39012/18-0101	25	Captive Contact	**1.16**	29.5	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	**0.120**	3.1	A		1050.3			

K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS													CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		C		E		t		MTG. HOLE			CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm	in	mm	in	mm	in	mm							
D	**KC-19-31**	**KC-19-79**	M39012/18B0004	26		**1.24**	31.5	**0.55**	14.0	**0.09**	2.3	**0.120**	3.1	**0.50**	12.7	A			201A	KTH-2001	KTJ-17	KTD-77

BULKHEAD RECEPTACLES

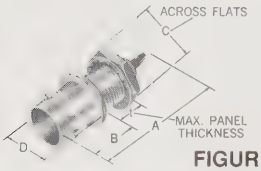


FIGURE 27

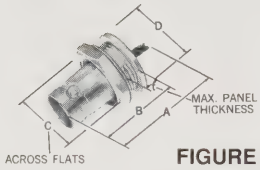


FIGURE 28

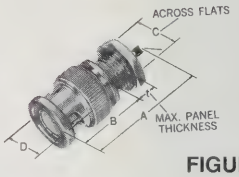


FIGURE 29

FIGURE 30

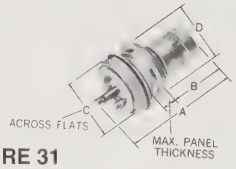


FIGURE 31

FIGURE 32

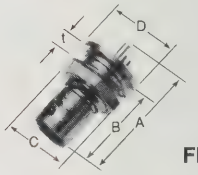
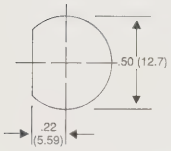
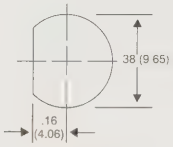


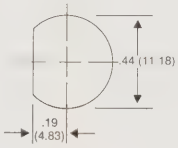
FIGURE 33



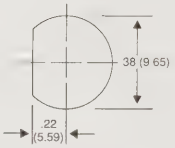
MTG. HOLE A



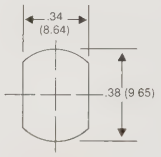
MTG. HOLE B



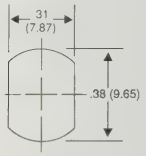
MTG. HOLE C



MTG. HOLE D



MTG. HOLE E



MTG. HOLE F

BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS												MTG. HOLE
					A		B		C		D		G		H		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KC-79-105	KC-79-105-M06	M39012/21-0001	27	Front Mount	1.06	26.9	0.47	11.9	0.50	12.7	0.50	12.7					0.134	3.4	C
KC-79-106	KC-79-131	M39012/21-0002	27	Front Mount	1.19	20.2	0.47	11.9	0.50	12.7	0.50	12.7					0.253	6.4	B
KC-79-121		M39012/21-0003	27	Front Mount	1.19	20.2	0.47	11.9	0.50	12.7	0.50	12.7					0.260	6.6	C
KC-79-110	KC-79-110-M06	M39012/23-0001	30	Right Angle, Front Mount	0.91	23.1	1.37	34.8	0.61	15.5	1.15	29.2	0.62	15.8	0.50	12.7	0.287	7.3	B
KC-79-111	KC-79-111-M06	M39012/23-0002	30	Right Angle, Front Mount	0.91	23.1	1.24	31.5	0.61	15.5	1.02	25.9	0.62	15.8	0.50	12.7	0.163	4.1	C
754-21-5	KC-79-67	M39012/128-0001	31	Isolated Ground, Front Mount	1.06	26.9	0.52	13.2	0.56	14.2	0.63	16.0					0.175	4.5	A
KC-79-30	KC-79-179		28	Rear Mount	1.04	26.4	0.73	18.5	0.63	16.0	0.63	16.0					0.061	1.6	A
KC-79-58	KC-79-59		29	Male; Front Mount	1.19	20.2	0.67	17.0	0.50	12.7	0.50	12.7					0.188	4.8	B
KC-79-93	KC-79-94		27	Same as KC-79-47, with round flange; Front Mount	1.06	26.9	0.47	11.9	0.50	12.7	0.50	12.7					0.141	3.6	C
	KC-79-57		27	Front Mount	1.09	27.7	0.43	10.9	0.56	14.2	0.63	16.0					0.191	4.9	A
	KC-79-302-M06		31	Isolated Ground, Front Mount	1.38	35.1	0.63	16.0	0.50	12.7	0.50	12.7					0.166	4.2	D
	KC-79-312-M06		32	Isolated Ground, Front Mount	1.38	35.1	0.63	16.0	0.50	12.7	0.50	12.7					0.166	4.2	D
	KC-79-197		31	Gold Contact, Front Mount, Isolated Ground	1.06	26.9	0.52	13.2	0.56	14.2	0.63	16.0					0.176	4.5	A
	KC-79-150		33	Isolated Ground, Rear Mount	1.06	26.9	0.73	18.5	0.56	14.2	0.56	14.2					0.175	4.5	A
UG-604/U	KC-79-40		27	Front Mount, Rexolite Insulation	1.04	26.4	0.56	14.2	0.50	12.7	0.56	14.2					0.095	2.4	F
UG-625/U	KC-79-48		27	Front Mount, Rexolite Insulation	1.04	26.4	0.50	12.7	0.50	12.7	0.50	12.7					0.185	4.7	C
UG-625B/U	KC-79-47		27	Front Mount, Hex Flange	1.06	26.9	0.47	11.9	0.50	12.7	0.50*	12.7					0.123	3.1	C
UG-1094/U	KC-79-35		27	Front Mount	1.06	26.9	0.47	11.9	0.50	12.7	0.50	12.7					0.134	3.4	B
UG-1094A/U	KC-79-46		27	Front Mount	1.19	20.2	0.47	11.9	0.50	12.7	0.50	12.7					0.260	6.6	B
UG-1098/U	KC-79-77		30	Right Angle, Front Mount	0.91	23.1	1.24	31.5	0.61	15.5	1.02	25.9	0.62	15.8	0.50	12.7	0.164	4.2	B

*Across Flats of Hex

BULKHEAD RECEPTACLES
PANEL RECEPTACLES

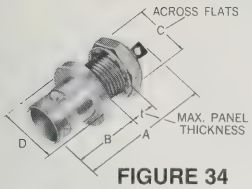


FIGURE 34

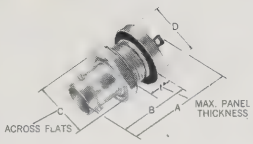


FIGURE 35

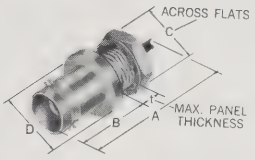


FIGURE 36

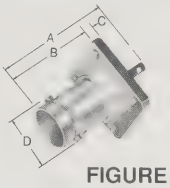


FIGURE 37

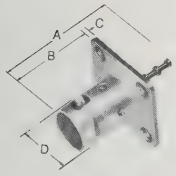


FIGURE 38

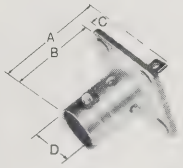


FIGURE 39

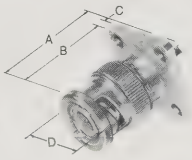


FIGURE 40

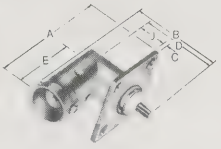
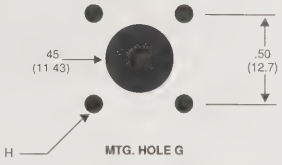
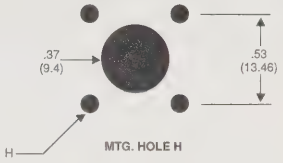


FIGURE 41





PRESSURIZED BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS												MTG. HOLE
SILVER FINISH (or as noted)	TR-5 FINISH				A		B		C		D		E		F		t	
					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KC-79-107		M39012/24-0001	35	Hermetic Seal, Rear Mtg.	1.20	30.5	0.83	21.1	0.63	16.0	0.69	17.5					0.264	6.7	A
KC-79-108		M39012/24-0002	34	Hermetic Seal, Front Mtg.	1.20	30.5	0.52	13.2	0.50	12.7	0.59	15.0					0.362	9.2	B
KC-79-259-MAA			34	Hermetic Seal, Front Mtg., Passivated Stainless Steel	1.20	30.5	0.52	13.2	0.50	12.7	0.59	15.0					0.362	9.2	B
KC-79-263-M07	KC-79-263-M06		27	O-Ring Seal, Front Mtg.	1.30	33.0	0.60	15.2	0.50	12.7	0.57	14.5					0.242	6.2	E
UG-657/U	KC-79-43		36	O-Ring Seal, Front Mtg.	1.30	33.0	0.60	15.2	0.50	12.7	0.57	14.5					0.248	6.3	E
UG-657A/U	KC-79-90		36	O-Ring Seal, Front Mtg.	1.30	33.0	0.60	15.2	0.50	12.7	0.57	14.5					0.248	6.3	E
UG-911A/U	KC-79-74		35	Hermetic Seal, Rear Mtg.	1.20	30.5	0.83	21.1	0.75	19.1	0.69	17.5					0.264	6.7	A
UG-912/U	KC-79-117		34	Front Mtg., Hermetic Seal, Internal Tooth Lockwasher	1.21	30.7	0.50	12.7	0.50	12.7	0.60	15.2					0.362	9.2	B
UG-912A/U	KC-79-79		34	Hermetic Seal, Front Mtg.	1.21	30.7	0.50	12.7	0.50	12.7	0.60	15.2					0.362	9.2	B

PANEL RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS														MTG. HOLE
SILVER FINISH	TR-5 FINISH				A		B		C		D		E		H		J		
					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
	KC-79-51		40	Male	1.19	20.2	0.76	19.3	0.09	2.3	0.56	14.2			0.125	3.2			H
KC-79-109	KC-79-132	M39012/22-0001	37		1.06	26.9	0.63	16.0	0.09	2.3	0.44	11.2			0.120	3.1			G
KC-79-123			37		1.06	26.9	0.63	16.0	0.09	2.3	0.44	11.2			0.120	3.1			G
	KC-79-125		37	Isolated Ground	1.06	26.9	0.60	15.2	0.12	3.1	0.44	11.2			0.108	2.7			G
UG-185/U	KC-79-86		38	Rexolite Insulation	1.06	26.9	0.55	14.0	0.05	1.3	0.44	11.2			0.139	3.5			H
UG-290/U	KC-79-56		37	Rexolite Insulation	1.04	26.4	0.63	16.0	0.09	2.3	0.44	11.2			0.120	3.1			G
UG-290A/U	KC-79-119		37		1.06	26.9	0.63	16.0	0.09	2.3	0.44	11.2			0.120	3.1			G
UG-447/U	KC-79-73		37		1.04	26.9	0.63	16.0	0.09	2.3	0.44	11.2			0.110	2.8			G
UG-535/U	KC-79-96		41		1.09	27.7	0.93	23.6	0.05	1.3	0.71	18.0	0.72	18.3	0.139	3.5	0.38	9.7	H
UG-928/U	KC-79-81		39	Rexolite Insulation	0.86	21.8	0.55	14.0	0.05	1.3	0.44	11.2			0.139	3.5			H
UG-1104A/U			40	Male; Brass Outer Contact	1.19	20.2	0.76	19.3	0.09	2.3	0.56	14.2			0.137	3.5			H

PC RECEPTACLES

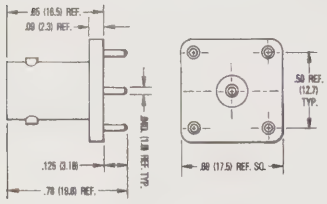


FIGURE 42

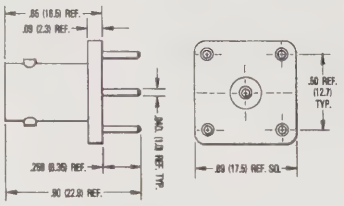


FIGURE 43

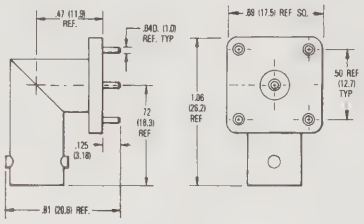


FIGURE 44

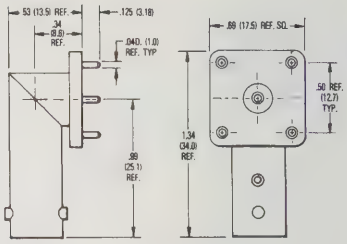


FIGURE 45

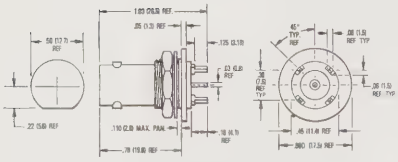


FIGURE 46

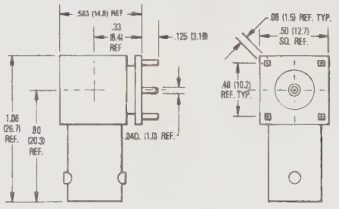


FIGURE 47

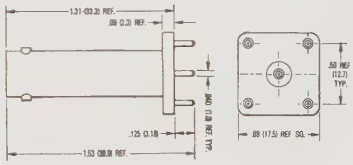


FIGURE 48

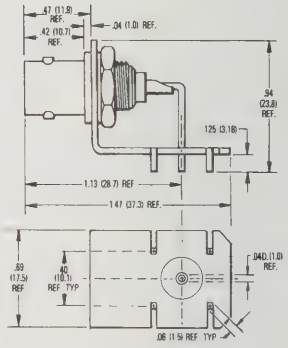


FIGURE 49

RF RECEPTACLES FOR PRINTED CIRCUIT BOARDS

KINGS PART NUMBER					PLATING	
SILVER FINISH BODY	TR-5 FINISH BODY	FIG. NO.	MAX PC BD. THICKNESS in	mm	MTG. PINS	CONTACT
KC-79-07	KC-79-07-M06	42	1/16	1.6	Silver	Silver
KC-79-153		43	1/8	3.2	Silver	Silver
757-15-5		42	1/16	1.6	Silver	Gold
	KC-79-215	43	1/8	3.2	Silver	Gold
	KC-79-232-M06	43	1/8	3.2	Silver	Silver
KC-79-234-M07	KC-79-234-M06	44	1/16	1.6	Silver	Gold
KC-79-237-M07	KC-79-237-M06	45	1/16	1.6	Silver	Silver
	KC-79-238-M06	46	1/16	1.6	TR-5	Gold
	KC-79-243-M06	47	1/16	1.6	TR-5	Silver
KC-79-249-M07		48	1/8	3.2	Silver	Gold
KC-79-251-M07	KC-79-251-M06	44	1/16	1.6	Silver	Silver
	KC-79-253-M06	46	1/16	1.6	TR-5	Silver
KC-79-255-M07	KC-79-255-M06	44	1/16	1.6	Silver	Gold
	KC-79-256-M06	49	1/16	1.6	Silver	Silver
	KC-79-262-M06	47	1/16	1.6	Silver	Gold
	KC-79-269-M06	50	1/16	1.6	Silver	Silver
	KC-79-274-M06	51	1/16	1.6	Silver	Gold
KC-79-276-M07		52	1/16	1.6	Silver	Silver
	KC-79-277-M06	53	1/16	1.6	TR-5	Silver
	KC-79-279-M06	54	1/8	3.2	TR-5	Gold
	KC-79-281-M06	49	1/16	1.6	Silver	Gold
KC-79-287-M07		55	1/16	1.6	Silver	Silver

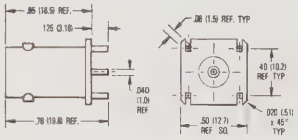


FIGURE 50

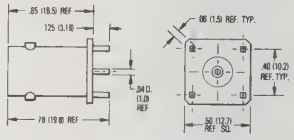


FIGURE 51

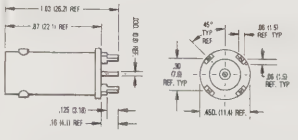


FIGURE 52

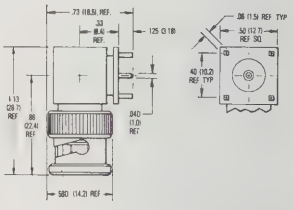


FIGURE 53

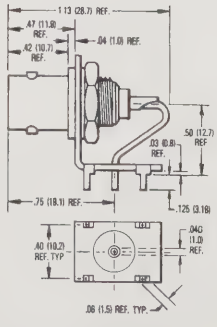


FIGURE 54

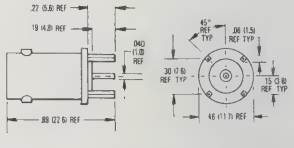


FIGURE 55

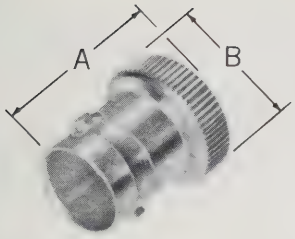


FIGURE 56

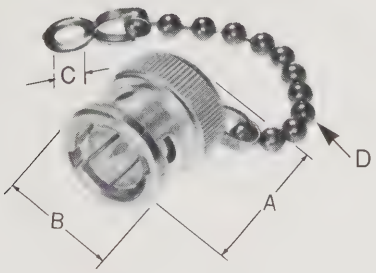


FIGURE 57

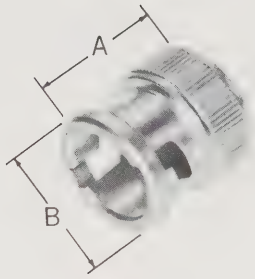


FIGURE 58

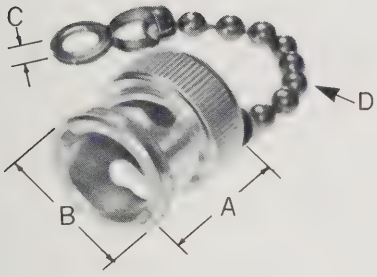


FIGURE 59

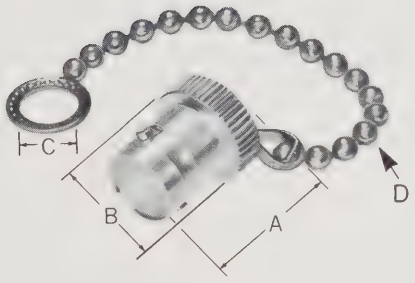


FIGURE 60

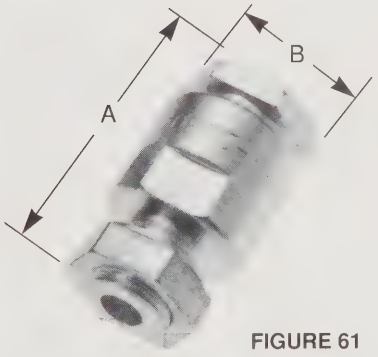


FIGURE 61

ACCESSORIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	NOTES	DIMENSIONS							
						A		B		C		D	
SILVER FINISH (or as noted)	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KC-89-39			59	Cap - Male with Cord	Olive Green Enamel, Coreless Nylon Cord	**0.70**	17.8	**0.56**	14.2	**0.25**	6.4	**2.5**	63.5
KC-89-40			60	Cap - Male with Bead Chain	Passivated Stainless Steel	**0.67**	17.0	**0.52**	13.2	**0.28**	7.1	**3.25**	82.6
KC-89-41			59	Cap - Male with Bead Chain	Passivated Stainless Steel	**0.67**	17.0	**0.55**	14.0	**0.14**	3.6	**2.25**	57.2
KC-89-44			56	Shorting Cap - Female		**0.58**	14.7	**0.50**	12.7				
KC-89-87		M39012/25-0006	59	Cap - Male with Bead Chain		**0.67**	17.0	**0.55**	14.0	**0.14**	3.6	**2.25**	57.2
KC-89-88		M39012/25-0007	59	Cap - Male with Safety Chain		**0.67**	17.0	**0.57**	14.5	**0.52**	13.2	**2.70**	68.6
KC-89-89		M39012/25-0008	60	Cap - Female with Bead Chain		**0.67**	17.0	**0.52**	13.2	**0.28**	7.1	**3.25**	82.6
KC-89-90		M39012/25-0009	60	Cap - Female with Safety Chain		**0.66**	16.8	**0.52**	13.2	**0.28**	7.1	**3.25**	82.6
KC-89-92		M39012/25-0015	58	Cap - Male		**0.58**	14.7	**0.55**	14.0				
KC-89-93		M39012/25-0016	57	Shorting Plug and Bead Chain		**0.70**	17.8	**0.55**	14.0	**0.14**	3.6	**2.5**	63.5
CW-123A/U	**KC-89-48**		59	Cap - Male with Bead Chain		**0.67**	17.0	**0.55**	14.0	**0.14**	3.6	**2.25**	57.2
	KC-89-58		58	Cap - Male		**0.64**	16.3	**0.55**	14.0				
CW-159/U	**KC-89-62**		57	Shorting Plug and Bead Chain		**0.69**	17.5	**0.56**	14.2	**0.14**	3.6	**2.5**	63.5
CW-282/U	**KC-89-83**		60	Cap - Female with Bead Chain		**0.67**	17.0	**0.52**	13.2	**0.28**	7.1	**3.25**	82.6
MX-1530A/U			61	End Seal	Accommodates Cable .250 OD	**0.89**	22.6	**0.50**	12.7				

ADAPTERS WITHIN SERIES

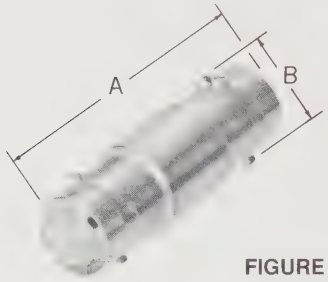


FIGURE 62

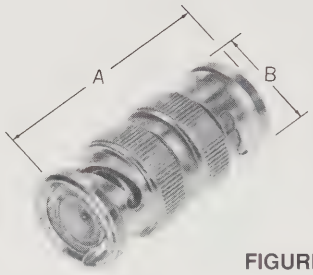


FIGURE 63

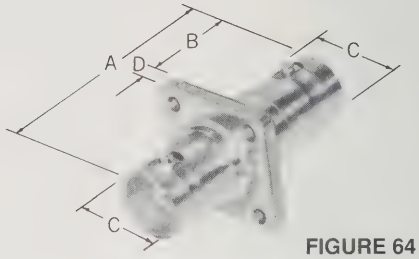


FIGURE 64

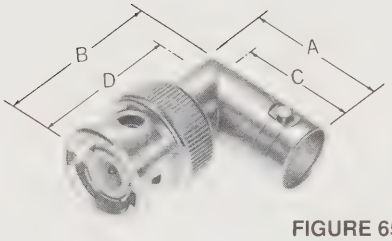


FIGURE 65

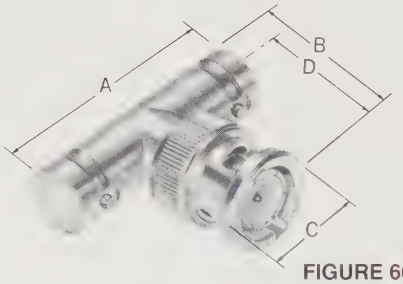
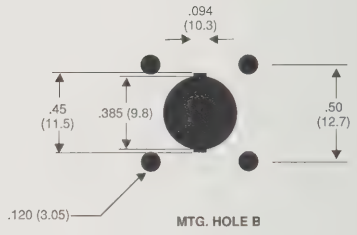


FIGURE 66



ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
SILVER FINISH (or as noted)	TR-5 FINISH					A		B		C		D		t		
						in	mm	in	mm	in	mm	in	mm	in	mm	
	KC-99-44		62	Jack-Jack	Gold Plated Contact	**1.28**	32.5	**0.43**	10.9							
759-1		M55339/16-00914	62	Jack-Jack		**1.28**	32.5	**0.44**	11.2							
UG-914/U	**KC-99-30**		62	Jack-Jack		**1.28**	32.5	**0.44**	11.2							
759-5		M55339/15-00491	63	Plug-Plug		**1.23**	31.2	**0.56**	14.2							
UG-491/U			63	Plug-Plug	Brass Outer Contact	**1.29**	32.8	**0.56**	14.2							
UG-491A/U			63	Plug-Plug	Brass Outer Contact	**1.22**	31.0	**0.56**	14.2							
UG-491B/U	**KC-99-32**		63	Plug-Plug		**1.22**	31.0	**0.56**	14.2							
UG-414A/U	**KC-99-56**		64	Jack-Jack		**1.28**	32.5	**0.50**	12.7	**0.44**	11.2	**0.09**	2.3			B
759-4		M55339/14-00306	65	Plug-Jack		**0.90**	22.9	**1.03**	26.2	**0.72**	18.3	**0.85**	21.6			
UG-306A/U			65	Jack-Plug	Brass Outer Contact	**0.90**	22.9	**1.03**	26.2	**0.62**	15.8	**0.84**	21.3			
UG-306B/U	**KC-99-35**		65	Jack-Plug		**0.90**	22.9	**1.03**	26.2	**0.62**	15.8	**0.84**	21.3			
759-3		M55339/17-00274	66	Jck-Plg-Jck		**1.28**	32.5	**1.06**	26.9	**0.56**	14.2	**0.84**	21.3			
UG-274/U			66	Jck-Plg-Jck	Rexolite Insulation	**1.28**	32.5	**1.11**	28.2	**0.56**	14.2	**0.89**	22.6			
UG-274A/U	**KC-99-64**		66	Jck-Plg-Jck	Brass Outer Contact	**1.28**	32.5	**1.06**	26.9	**0.56**	14.2	**0.84**	21.3			
UG-274B/U	**KC-99-31**		66	Jck-Plg-Jck		**1.28**	32.5	**1.06**	26.9	**0.56**	14.2	**0.84**	21.3			
UG-274C/U	**KC-99-52**		66	Jck-Plg-Jck	Center Cont. Finish Hard Gold Plate	**1.28**	32.5	**1.06**	26.9	**0.56**	14.2	**0.84**	21.3			
KC-99-20	**KC-99-37**		67	Jck-Jck-Jck		**1.28**	32.5	**0.92**	23.4	**0.44**	11.2	**0.70**	17.8			
KC-99-28			68	Jack-Plug	Component Holder	**2.54**	64.5	**0.81**	20.6	**1.32**	33.5					
KC-99-40	**KC-99-54**		69	Jack-Jack	Isolated Ground	**1.28**	32.5	**0.80**	20.3	**0.63**	16.0	**0.63**	16.0	**0.176**	4.5	A
KC-99-95-M07	**KC-99-95-M06**		69	Jack-Jack		**1.28**	32.5	**0.73**	18.5	**0.68**	17.3	**0.63**	16.0	**0.162**	4.1	A

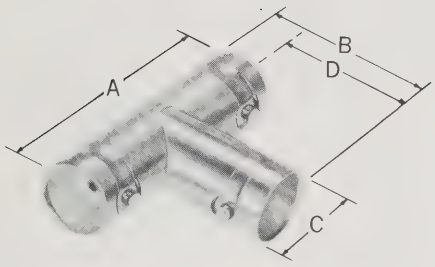


FIGURE 67

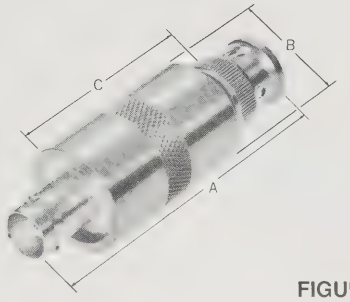


FIGURE 68

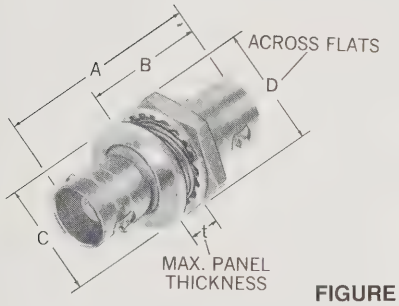


FIGURE 69

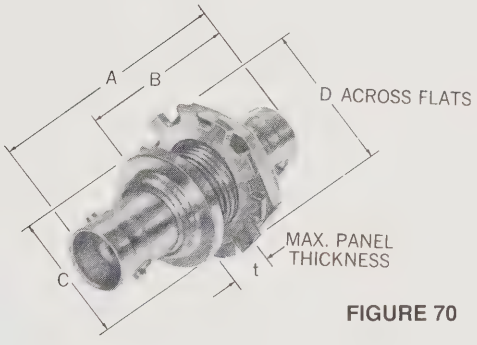


FIGURE 70

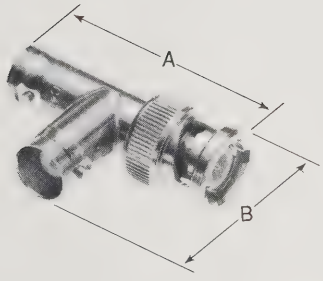
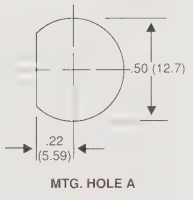


FIGURE 71



MTG. HOLE A

ADAPTERS WITHIN SERIES (Continued)

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
759-2		M55339/13-00492	70	Jack-Jack	Hermetic Seal, Internal Tooth Lockwasher	**1.53**	38.9	**0.86**	21.8	**0.69**	17.5	**0.63**	16.0	**0.275**	7.0	A
759-9		M55339/13-00001	70	Jack-Jack	Pressurized (O-Ring Seals)	**1.40**	35.6	**0.86**	21.8	**0.63**	16.0	**0.63**	16.0	**0.296**	7.5	A
KC-99-19			70	Jack-Jack	Pressurized (Hermetic Seal), Passivated Stainless Steel Body, Gold Pltd. Cont.	**1.53**	38.9	**0.86**	21.8	**0.69**	17.5	**0.75**	19.1	**0.279**	7.1	A
UG-492A/U	**KC-99-33**		70	Jack-Jack	Pressurized (Hermetic Seal)	**1.40**	35.6	**0.73**	18.5	**0.69**	17.5	**0.63**	16.0	**0.172**	4.4	A
UG-492B/U			70	Jack-Jack	Pressurized (Hermetic Seal), O-Ring Flange Seal	**1.39**	35.3	**0.74**	18.8	**0.73**	18.5	**0.63**	16.0	**0.172**	4.4	A
UG-492C/U			70	Jack-Jack	Pressurized (Hermetic Seal)	**1.40**	35.6	**0.73**	18.5	**0.69**	17.5	**0.75**	19.1	**0.154**	3.9	A
UG-492D/U	**KC-99-38**		70	Jack-Jack	Pressurized (Hermetic Seal)	**1.53**	38.9	**0.86**	21.8	**0.69**	17.5	**0.75**	19.1	**0.279**	7.1	A
	KC-99-53		71	Plg-Jck-Jck		**1.48**	37.6	**0.98**	24.9							

TERMINATIONS

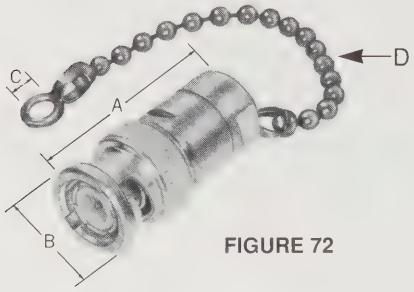


FIGURE 72

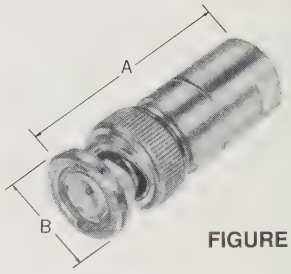


FIGURE 73

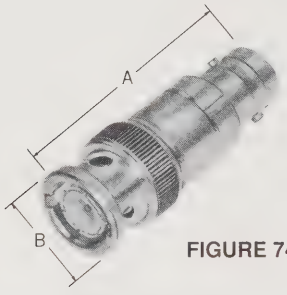


FIGURE 74

TERMINATIONS

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	NOTES	DIMENSIONS							
						A		B		C		D	
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KC-89-42			72	Male with Bead Chain	50 ohm, 1%, 1/2 watt; non-inductive	1.52	38.6	0.56	14.2	0.14	3.6	3.5	88.9
KC-89-49			73	Male	51 ohm; 5%, 1 watt	1.42	36.1	0.56	14.2				
KC-89-54	KC-89-103		73	Male	51 ohm, 5%, 1/2 watt	1.19	30.2	0.56	14.2				
KC-89-55	KC-89-104		73	Male	75 ohm, 5%, 1/2 watt	1.19	30.2	0.56	14.2				
KC-89-56	KC-89-105		73	Male	100 ohm, 5%, 1/2 watt	1.19	30.2	0.56	14.2				
	KC-89-110		73	Male	75 ohm, 1/2%, 1/2 watt	1.42	36.1	0.56	14.2				
	KC-89-113		72	Male with Bead Chain	Same as MX554A/U without resistor	1.29	32.8	0.56	14.2				
	KC-89-163		73		50 ohm, 5%, 2 watt	1.42	36.1	0.56	14.2				
	1340-1		74	BNC Plug to Jack	50 ohm, 5%, 2 watt	1.36	34.5	0.56	14.2				
KC-89-57	KC-89-57-M06		73	Male	75 ohm, 5%, 1 watt	1.41	35.8	0.56	14.2				
	KC-89-64		73	Male	50 ohm, 1%, 1/2 watt; non-inductive	1.44	36.6	0.56	14.2				
	KC-89-66		73	Male	75 ohm, 1%, 1/2 watt	1.43	36.3	0.56	14.2				
KC-89-82			73	Male	91 ohm, 5%, 1 watt	1.42	36.1	0.56	14.2				
	KC-89-74		72	Male Termination Shell	Resister installed by user	1.28	32.5	0.56	14.2				
MX-554A/U-( )	KC-89-73		72	Male with Bead Chain	100 ohm, 5%, 1/2 watt or as per user specification	1.29	32.8	0.56	14.2	0.14	3.6	3.5	88.9

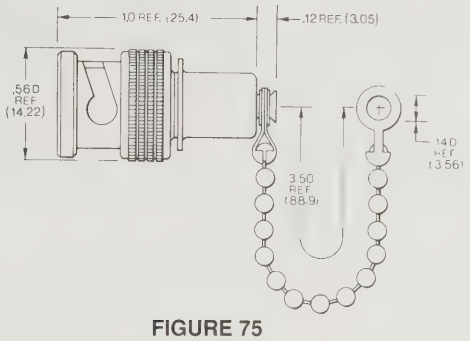


FIGURE 75

ECONOMY TYPE

KINGS PART NUMBER TR-5 FINISH	FIG. NO.	DESCRIPTION	NOTES	CHARACTERISTIC IMPEDANCE
1345-3-31	75	Male without chain	50 ohm, 1%, 1/2 watt	50 ohm
1345-3-32	75	Male without chain	50 ohm, 0.1%, 1/2 watt	50 ohm
1345-3-33	75	Male without chain	51 ohm, 5%, 1/2 watt	50 ohm
1345-3-34	75	Male without chain	75 ohm, 5%, 1/2 watt	50 ohm
1345-3-35	75	Male without chain	75 ohm, 1%, 1/2 watt	50 ohm
1345-3-36	75	Male without chain	75 ohm, 0.1%, 1/2 watt	50 ohm
1345-3-37	75	Male without chain	91 ohm, 1%, 1/2 watt	50 ohm
1345-3-38	75	Male without chain	91 ohm, 5%, 1/2 watt	50 ohm
1345-3-39	75	Male without chain	93 ohm, 1%, 1/2 watt	50 ohm
1345-3-40	75	Male without chain	93 ohm, 0.1% 1/2 watt	50 ohm
1345-4-31	75	Male with Bead Chain	50 ohm, 1%, 1/2 watt	50 ohm
1345-4-32	75	Male with Bead Chain	50 ohm, 0.1%, 1/2 watt	50 ohm
1345-4-33	75	Male with Bead Chain	51 ohm, 5%, 1/2 watt	50 ohm
1345-4-34	75	Male with Bead Chain	75 ohm, 5%, 1/2 watt	50 ohm
1345-4-35	75	Male with Bead Chain	75 ohm, 1%, 1/2 watt	50 ohm
1345-4-36	75	Male with Bead Chain	75 ohm, 0.1%, 1/2 watt	50 ohm
1345-4-37	75	Male with Bead Chain	91 ohm, 1%, 1/2 watt	50 ohm
1345-4-38	75	Male with Bead Chain	91 ohm, 5%, 1/2 watt	50 ohm
1345-4-39	75	Male with Bead Chain	93 ohm, 1%, 1/2 watt	50 ohm
1345-4-40	75	Male with Bead Chain	93 ohm, 0.1%, 1/2 watt	50 ohm
2555-3-30	75	Male without chain	75 ohm, 5%, 1/2 watt	75 ohm
2555-3-31	75	Male without chain	75 ohm, 1%, 1/2 watt	75 ohm
2555-3-32	75	Male without chain	75 ohm, 0.1%, 1/2 watt	75 ohm
2555-4-30	75	Male with Bead Chain	75 ohm, 5%, 1/2 watt	75 ohm
2555-4-31	75	Male with Bead Chain	75 ohm, 1%, 1/2 watt	75 ohm
2555-4-32	75	Male with Bead Chain	75 ohm, 0.1%, 1/2 watt	75 ohm

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

BNC 75 ohm connectors are BNC connectors with a reduced dielectric to achieve 75 ohm nominal impedance. They will therefore also mate with 50 ohm BNC connectors. The BNC 75 ohm connector was established to accommodate 75 ohm coaxial cables. All the connectors in this group have captive center contacts, and are weatherproof.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	75 ohms
Voltage Rating	500 volts rms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C)

MECHANICAL

Mating	2 stud bayonet coupling

MATERIAL

Except as noted in connector listings

Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

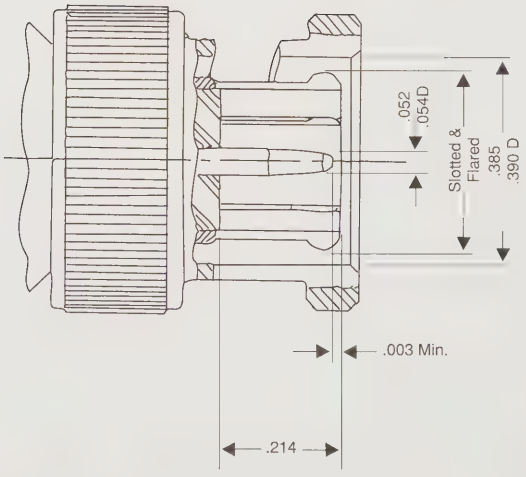
FINISHES

Contacts	1. .0002" (.005mm) min. silver plate, QQ-S-365A, plus TR-4® electrolytic chromate treatment. 2. .0001" (.0025mm) min. hard gold plate, MIL-G-45204B
Bodies & Fittings	1. TR-5® – Kings tarnish resistant alloy electrodeposit finish. 2. .0002" (.005mm) min. silver plate, QQ-S-365A plus Kings TR-4® electrolytic chromate treatment.

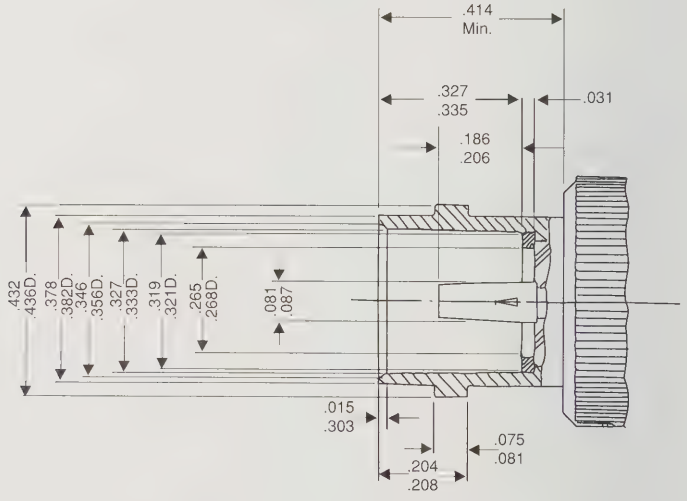
Specifications are typical and may not apply to all connectors.

INTERFACE

PLUG



JACK



PLUGS
ANGLE PLUGS

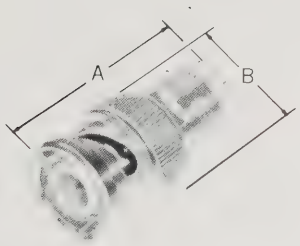


FIGURE 1

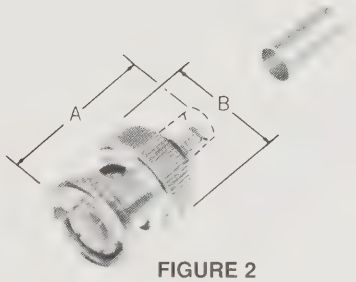


FIGURE 2

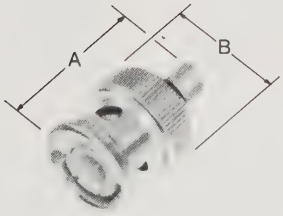


FIGURE 3

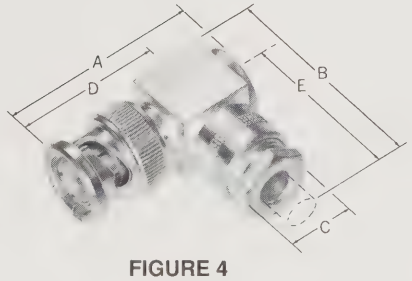


FIGURE 4

PLUGS – CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER: SILVER FINISH SILVER PLATED CONTACT	KINGS PART NUMBER: TR-5 FINISH SILVER PLATED CONTACT	KINGS PART NUMBER: TR-5 FINISH GOLD PLATED CONTACT	FIG. NO.	NOTES	DIMENSIONS: A in	DIMENSIONS: A mm	DIMENSIONS: B in	DIMENSIONS: B mm	CABLING: CABLE TRIM CODE	CABLING: CRIMP DIE	CABLING: JACKET TRIM JIG	CABLING: DIELEC. TRIM JIG
RG-59, 140 BELDEN 8279		**2025-2-9**	**2025-23-9**	1	Captive Contact	**1.08**	27.4	**0.57**	14.5	1044			
BELDEN 8281		**2025-4-9**	**2025-35-9**	1	Captive Contact	**1.67**	42.4	**0.75**	19.1	1016			

PLUGS – TAPER GRIP CONSTRUCTION

ESSEX 21-597 BELDEN 8218	**2025-15-5**	**2025-3-9**	**2025-9-9**	1	Captive Contact	**1.09**	27.7	**0.57**	14.5	2209			

PLUGS – K-GRIP, JR. CONSTRUCTION

ESSEX 21-597 MONCO 1354			**2025-5-9**	2	Captive Contact	**1.25**	31.8	**0.56**	14.2	465	KTH-2139	KTJ-116	KTD-161
RG-59, 140 BELDEN 8279		**2025-6-9-M06**	**2025-36-9**	2	Captive Contact	**1.10**	27.9	**0.57**	14.5	465	KTH-2112	KTJ-113	KTD-184
BELDEN 8281 WE 724		**2025-7-9**	**2025-37-9**	2	Captive Contact	**1.10**	27.9	**0.57**	14.5	424	KTH-2119	KTJ-43	KTD-30

PLUGS FOR SEMI-RIGID CABLE DIRECT SOLDER

UT-141-75			**2025-1-9**	3	Body Gold Plated	**0.75**	19.1	**0.57**	14.5	3-81			
UT-85-75			**2025-8-9**	3	Body Gold Plated	**0.75**	19.1	**0.57**	14.5	3-84			

ANGLE PLUGS – K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER: SILVER FINISH	KINGS PART NUMBER: TR-5 FINISH	KINGS PART NUMBER: TR-5 FINISH GOLD PLATED CONTACT	FIG. NO.	NOTES	DIMENSIONS: A in	DIMENSIONS: A mm	DIMENSIONS: B in	DIMENSIONS: B mm	DIMENSIONS: C in	DIMENSIONS: C mm	DIMENSIONS: D in	DIMENSIONS: D mm	DIMENSIONS: E in	DIMENSIONS: E mm	CABLING: CBL. TRIM CODE	CABLING: CRIMP DIE	CABLING: JACKET TRIM JIG	CABLING: DIELEC. TRIM JIG
RG-59, 62, 210			**2026-4-9**	4		**0.91**	23.1	**1.09**	27.7	**0.50**	12.7	**0.74**	18.8	**0.82**	20.8	3-257	KTH-2002		

BULKHEAD JACKS
BULKHEAD RECEPTACLES
PANEL RECEPTACLES

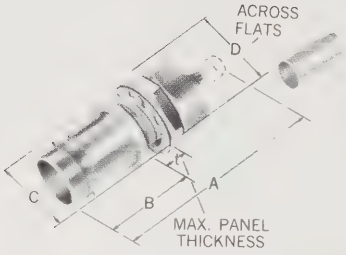


FIGURE 5

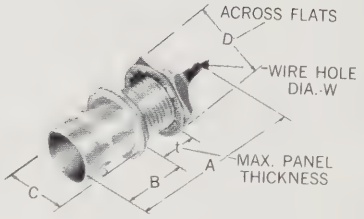


FIGURE 6

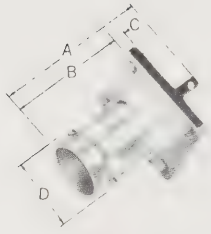


FIGURE 7

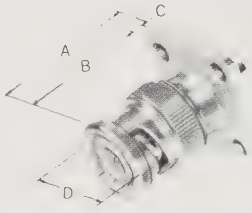
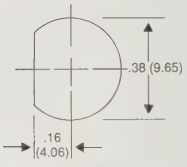
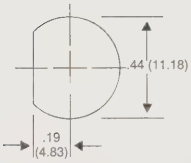


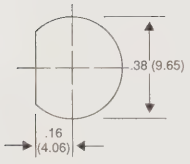
FIGURE 8



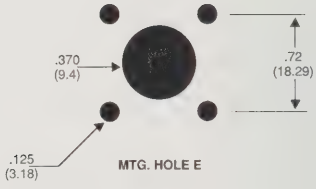
MTG. HOLE A



MTG. HOLE B



MTG. HOLE C



MTG. HOLE E

BULKHEAD JACKS – PRE-ASSEMBLED K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER TR-5 FINISH SILVER PLATED CONTACT	KINGS PART NUMBER TR-5 FINISH GOLD PLATED CONTACT	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
M17/119-RG174 M17/094-RG179 M17/113-RG316	**2022-1-9**	**2022-2-9**	5	Front Mount, Captive Cont.	**1.38**	35.1	**0.56**	14.2	**0.50**	12.7	**0.50**	12.7	**0.163**	4.1	A	470	KTH-2011	KTJ-110	KTD-165
BULKHEAD RECEPTACLES																			
	2024-1-9	**2024-11-9**	6	Front Mount	**1.06**	26.9	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.134**	3.4	B				
	2024-2-9	**2024-7-9**	6	Front Mount	**1.06**	26.9	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.134**	3.4	C				
PANEL RECEPTACLES																			
	2027-1-9	**2027-9-9**	7		**1.06**	26.9	**0.62**	15.8	**0.09**	2.3	**0.43**	10.9			E				
	2027-3-9-M06	**2027-10-9**	8		**1.19**	30.2	**0.84**	21.3	**0.09**	2.3	**0.56**	14.2			E				

PC RECEPTACLES
ADAPTERS WITHIN SERIES

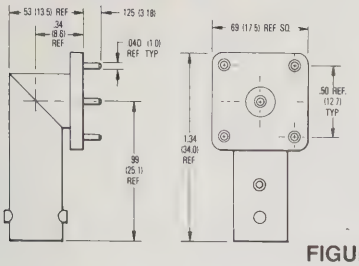


FIGURE 9

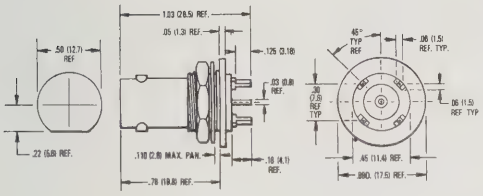
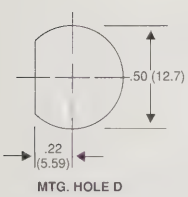


FIGURE 10



MTG. HOLE D

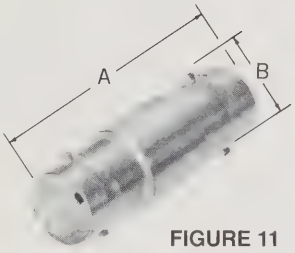


FIGURE 11

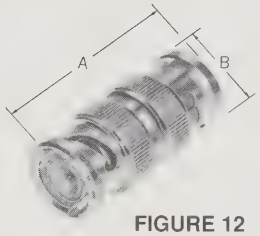


FIGURE 12

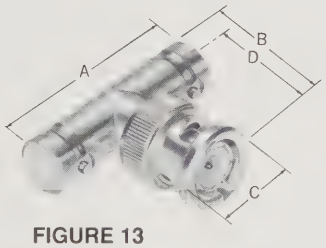


FIGURE 13

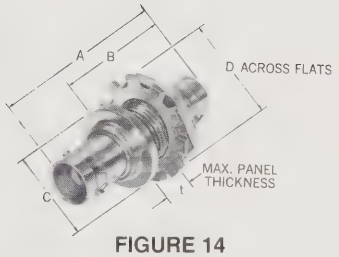


FIGURE 14

PC RECEPTACLES

KINGS PART NUMBER			FIG. NO.	NOTES	MAX PC BD. THICKNESS	PLATING	
SILVER FINISH BODY	TR-5 FINISH BODY	TR-5 FINISH GOLD PLATED CONTACT			in mm	MTG. PINS	CONTACT
	2024-3-9		10		**1/16** 1.6	TR-5	Silver
	2024-12-9		10		**1/16** 1.6	TR-5	Gold
2027-5-5	**2027-5-9**		9		**1/16** 1.6	Silver	Silver
	2027-6-9		9	Zinc Die Cast Body	**1/16** 1.6	Silver	Silver
	2027-11-9		9		**1/16** 1.6	Silver	Gold
	2027-12-9		9	Zinc Die Cast Body	**1/16** 1.6	Silver	Gold

ADAPTERS WITHIN SERIES

KINGS PART NUMBER			FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH SILVER PLATED CONTACT	TR-5 FINISH SILVER PLATED CONTACT	TR-5 FINISH GOLD PLATED CONTACT				in	mm	in	mm	in	mm	in	mm	in	mm	
	2029-1-9	**2029-15-9**	11	Jck-Jck		**1.28**	32.6	**0.44**	11.2							
	2029-4-9	**2029-18-9**	12	Plg-Plg		**1.23**	31.2	**0.56**	14.2							
	2029-3-5	**2029-16-5**	13	Jck-Plg-Jck		**1.28**	32.5	**1.06**	26.9	**0.56**	14.2					
	2029-2-5	**2029-9-9**	14	Jck-Jck		**1.39**	35.3	**0.73**	18.5	**0.69**	17.5	**0.63**	16.0	**0.158**	4.0	D
	2029-14-9	**2029-17-9**	14	Jck-Jck	Isolated Ground	**1.28**	32.5	**0.73**	18.5	**0.63**	16.0	**0.63**	16.0	**0.176**	4.5	D
2029-4-5			12	Plg-Plg	Gold Plated Cont.	**1.23**	31.2	**0.56**	14.2							

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

TNC series RF connectors are basically BNC connectors with threaded coupling and improved electrical performance at higher frequencies. Frequency range is 0 to 11 GHz. The TNC connector is a miniature 50 ohm constant impedance connector that accommodates cables basically from .150" to .250" OD with designs available for .078" to .437" cables. The TNC is a weatherproof unit and with its threaded coupling, ensures low noise and withstands shock and vibration. Their reliability has made them a standard in the airframe, missle, radar and precision electronic equipment industries. Items qualified to MIL-C-39012 are included in the listings, and also appear in the latest QPL list for MIL-C-39012.

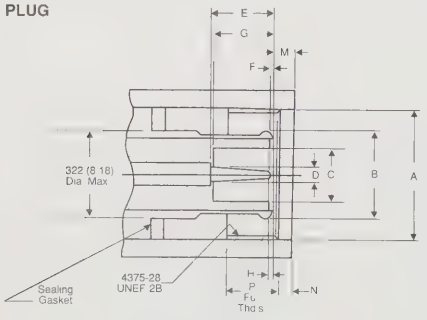
CABLE GROUPS — RG/U, M17		
A		178, 178A, 178B, 196, 196A, M17/93-RG178, M17/93-00001
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001, M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
C	C-1	122, M17/54-RG122
	C-2	180, 180A, 180B, 195, 195A, M17/95-RG180, M17/137-00001
	C-3	Essex 21-597, Belden 8218
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59, M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
P		393, M17/127-RG393

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

INTERFACE

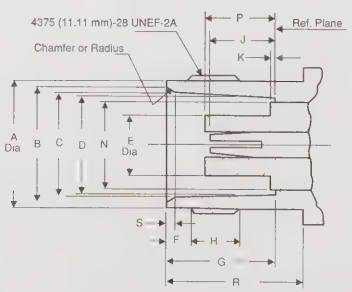
Per MIL-C-39012 or MIL-STD-348 as applicable

PLUG



Dim Ltr	Inches (mm) Minumum	Maximum	Dim Ltr	Inches (mm) Minumum	Maximum
A	.440 (11.18)		G	.208 (5.28	.228 (5.79)
B	.Gauge Test		H	.003 (0.08)	.040 (1.02)
C	.190 (4.83)		M		.078 (1.98)
D	.052 (1.32)	.054 (1.37)	N	.063 (1.60)	
E	.210 (5.33)	.230 (5.84)	P	.156 (3.96)	
F	.006 (0 15)				

JACK



Dim Ltr	Inches (mm) Minumum	Maximum	Dim Ltr	Inches (mm) Minumum	Maximum
A	.378 (9.60)	.381 (9 68)	H	.187 (4.75)	
B	.346 (8.79)	.356 (9.04)	J	.186 (4.72)	.206 (5.23)
C	.327 (8.31)	.333 (8.46)	K		.006 (0.15)
D	.319 (8.10)	.321 (8.15)	N		.256 (6.50)
E		.186 (4.72)	P	.188 (4.78)	.208 (5.28)
F	.068 (1.73)	.088 (2.24)	R	.414 (10.52)	
G	.327 (8.31)	.335 (8.51)	S	.015 (0.38)	.030 (0.76)

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 11 GHz
Voltage Rating	500 volts rms
Dielectric Withstanding Voltage	1500 volts rms
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.30 max .5-11 GHz
Contact Resistance (MIL-C-39012 cable connectors)	
Center Contacts	1.5 milliohms
Outer Contacts (silver plate)	.2 milliohms
Insertion Loss (MIL-C-39012 cable connectors)	.18 dB max at 9 GHz

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition G
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.

MECHANICAL

Mating	.4375-28 threaded coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention	
Non-Crimp	40 pounds min.
Crimp	10 to 40 lbs depeding on cable size.
Center Contact Retention	6 lbs. min. axial force. Applicable to captivated center contact connectors only.
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Stainless Steel, QQ-S-763
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0001" (.0025 mm) min. hard gold plate, MIL-G-45204B. 2. All other items .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment, unless otherwise noted.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

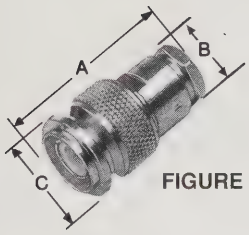


FIGURE 1

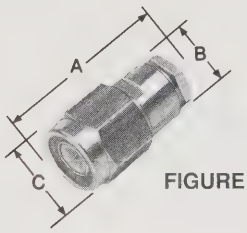


FIGURE 2

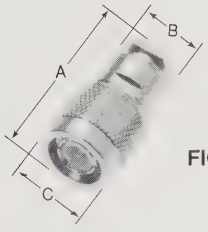


FIGURE 3

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH (or as noted)	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	DIMENSIONS C in	DIMENSIONS C mm	CABLING CBL. TRIM CODE
B	**KA-59-289**		M39012/26-0018	1	Captive Contact	**1.08**	27.4	**0.50**	12.7	**0.63**	16.0	1050
DE	**KA-51-03**			1		**1.09**	27.7	**0.50**	12.7	**0.63**	16.0	1004
DE	**KA-59-22**	**KA-59-171**	M39012/26-0101	1	Captive Contact	**1.08**	27.4	**0.50**	12.7	**0.63**	16.0	1050
DE	**KA-51-18**	**KA-59-143**		3		**1.09**	27.7	**0.50**	12.7	**0.59**	15.0	1004
DE	**KA-59-374-MAA**			3	Passivated Stainless Steel	**1.09**	27.7	**0.50**	12.7	**0.59**	15.0	1004
G	**KA-59-18**		M39012/26-0102	1	Captive Contact	**1.09**	27.7	**0.50**	12.7	**0.63**	16.0	1050
G	**KA-59-82**			1	Polarized	**1.09**	27.7	**0.50**	12.7	**0.625**	15.9	1004.3
G	**KA-51-17**	**KA-59-212**		3		**1.09**	27.7	**0.50**	12.7	**0.59**	15.0	1004.3
MN	**KA-51-19**	**KA-59-144**		3		**1.67**	42.4	**0.75**	19.1	**0.59**	15.0	1005
.085 SR RG-405/U	**KA-59-302**			3		**1.09**	27.7	**0.50**	12.7	**0.59**	15.0	705
.141 SR RG-402/U	**KA-59-404-MAA**			3	Stainless Steel Coupling Nut, Gold Plated Body and Contact, Wire Holes	**0.801**	20.4			**0.63**	16.0	R

TAPER GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	DIMENSIONS C in	DIMENSIONS C mm	CABLING CBL. TRIM CODE
B		**KA-59-428-MC7**		1	Captive Contact, Gold Plated, Wire Holes	**1.08**	27.4			**0.63**	16.0	2201
DE		**KA-59-425-M06**		1	Captive Contact, Gold Plated, Wire Holes	**1.09**	27.7			**0.63**	16.0	2201
RG-58/U		**KA-59-427-M06**		2	Captive Contact, Gold Plated	**1.09**	27.7			**0.59**	15.0	2201
RG-59/U		**125-16-7**		2	Captive Contact, Gold Plated	**1.09**	27.7			**0.59**	15.0	2201
RG-59/U		**KA-59-413-M06**		1	Captive Contact, Gold Plated, Wire Holes	**1.09**	27.7			**0.63**	16.0	2201
RG-59/U		**KA-59-421-M06**		2	Captive Contact, Gold Plated	**1.09**	27.7			**0.59**	15.0	2201

R — request from factory.

PLUGS

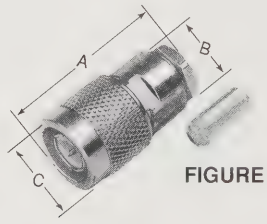


FIGURE 4

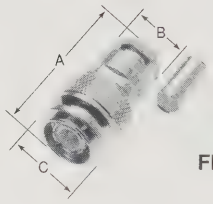


FIGURE 5

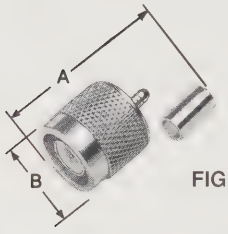


FIGURE 6

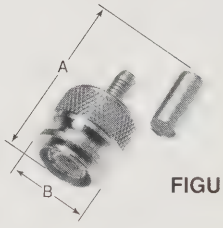


FIGURE 7

K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	DIMENSIONS C in	DIMENSIONS C mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
D	**KA-59-29**			5		**1.18**	30.0	**0.50**	12.7	**0.63**	16.0	201A	KTH-2001	KTJ-17	KTD-77
D	**KA-59-129**			4	Crimp Contact	**1.18**	30.0	**0.50**	12.7	**0.59**	15.0	201A	KTH-2001	KTJ-17	KTD-77
N-1	**KA-59-31**	**KA-59-95**		5		**1.69**	42.9	**0.75**	19.1	**0.63**	16.0	209A	KTH-2004	KTJ-24	KTD-81
N-1	**KA-59-131**			4	Crimp Contact	**1.69**	42.9	**0.75**	19.1	**0.59**	15.0	209A	KTH-2004	KTJ-22	KTD-81
P	**KA-59-267**			5	Crimp Contact	**1.69**	42.9	**0.75**	19.1	**0.63**	16.0	230A	KTH-2004	KTJ-24	KTD-81

K-GRIP, JR. CONSTRUCTION

B	**KA-59-69**	**KA-59-120**		6	Crimp & Captive Contact	**0.94**	23.9	**0.59**	15.0			406	KTH-2032	KTJ-38	
C-1	**KA-59-290**		M39012/26-0501	7	Crimp & Captive Contact	**1.11**	28.2	**0.63**	16.0			465	KTH-2007	KTJ-116	KTD-161
C-2	**KA-59-291**		M39012/26-0502	7	Crimp & Captive Contact	**1.11**	28.2	**0.63**	16.0			465	KTH-2007	KTJ-116	KTD-161
D	**KA-59-44**	**KA-59-103**		6	Crimp Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2001	KTJ-57	KTD-25
D	**KA-59-231**	**KA-59-265**	M39012/26-0010	7	Crimp & Captive Contact	**1.08**	27.4	**0.63**	16.0			465	KTH-2001	KTJ-113	KTD-166
D	**KA-59-287**		M39012/26-0504	7	Crimp & Captive Contact	**1.11**	28.2	**0.63**	16.0			465	KTH-2001	KTJ-113	KTD-166
D		**KA-59-406-M06**		6	Crimp & Captive Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2001	KTJ-57	KTD-25
D		**KA-59-225**		6	Crimp & Captive Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2001	KTJ-57	KTD-25
E-1	**KA-59-45**	**KA-59-87**		6	Crimp Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2001	KTJ-57	KTD-25
E-1	**KA-59-230**	**KA-59-263**	M39012/26-0011	7	Crimp & Captive Contact	**1.08**	27.4	**0.63**	16.0			465	KTH-2001	KTJ-113	KTD-166
E-1	**KA-59-292**		M39012/26-0503	7	Crimp & Captive Contact	**1.11**	28.2	**0.63**	16.0			465	KTH-2001	KTJ-113	KTD-166
E-2	**KA-59-57**	**KA-59-86**		6	Crimp Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2001	KTJ-57	KTD-25
G-1	**KA-59-46**	**KA-59-94**		6	Crimp Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2002	KTJ-57	KTD-26
G-1	**KA-59-232**		M39012/26-0012	7	Crimp & Captive Contact	**1.08**	27.4	**0.63**	16.0			465	KTH-2002	KTJ-113	KTD-184
G-1		**KA-59-385-M06**		6	Crimp & Captive Contact	**1.10**	27.9	**0.59**	15.0			401	KTH-2002	KTJ-57	KTD-26
G-2	**KA-59-234**		M39012/26-0014	7	Crimp & Captive Contact	**1.08**	27.4	**0.63**	16.0			465	KTH-2002	KTJ-113	KTD-184
BELDEN AWM 1478 &9880		**KA-59-400-M06**		6	Crimp & Captaive Contact	**1.65**	41.9	**0.59**	15.0			480	KTH-2004	KTJ-137	KTD-232

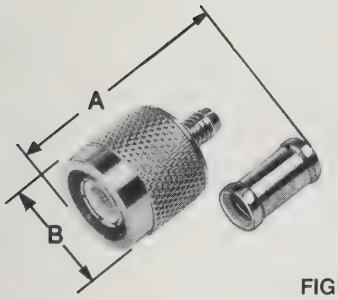


FIGURE 8

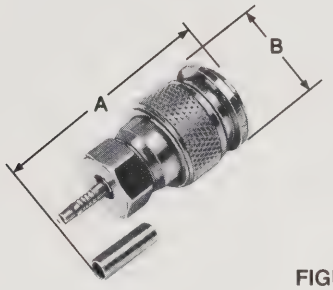


FIGURE 9

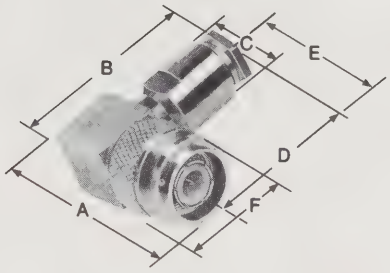


FIGURE 10

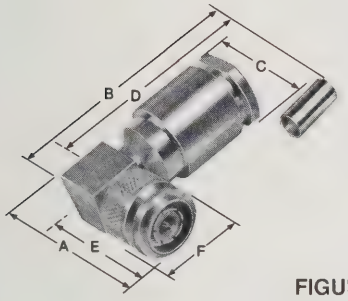


FIGURE 11

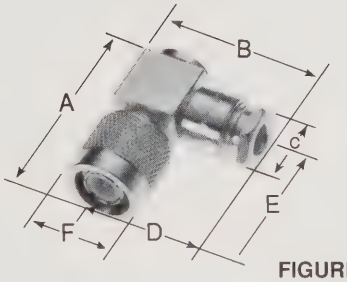


FIGURE 12

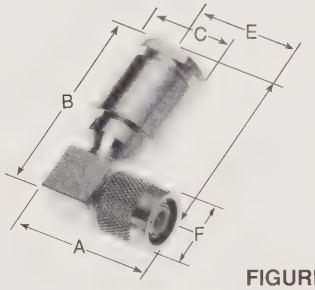


FIGURE 13

PLUGS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
B	**KA-59-242**	**KA-59-260**		8	Crimp Contact	**1.06**	26.9	**0.59**	15.0	402	KTH-2081	KTJ-100	KTD-145
D	**KA-59-116**	**KA-59-117**		8	Crimp Contact	**0.98**	24.9	**0.59**	15.0	401	KTH-2061	KTJ-57	KTD-25
D		**KA-59-179**		8	Crimp Contact; Lockwire Holes	**1.11**	28.2	**0.59**	15.0	401	KTH-2061	KTJ-57	KTD-25

PLUGS – PRE-ASSEMBLED K-GRIP CONSTRUCTION

B-1	**125-19-5**		M39012/26-0022	9	Captive Contact	**1.46**	37.1	**0.63**	16.0	465	KTH-2011	KTJ-116	KTD-245

ANGLE PLUGS – CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NO. SILVER FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
DE	**KA-51-21**		12	Captive Contact	**1.24**	31.5	**1.06**	26.9	**0.50**	12.7	**0.77**	19.6	**0.92**	23.4	**0.59**	15.0	1008			
DE	**KA-59-343**	M39012/30-0101	10	Captive Contact	**1.13**	28.7	**1.56**	39.6	**0.50**	12.7	**1.25**	31.8	**0.88**	22.4	**0.63**	16.0	1050			
G	**KA-59-344**	M39012/30-0102	10	Captive Contact	**1.13**	28.7	**1.56**	39.6	**0.50**	12.7	**1.25**	31.8	**0.88**	22.4	**0.63**	16.0	1050			
MN	**KA-51-23**		13		**1.25**	31.8	**1.78**	45.2	**0.75**	19.1	**1.49**	37.9	**0.88**	22.4	**0.59**	15.0	1005			

ANGLE PLUGS – K-GRIP CONSTRUCTION

N-1,-3,P	**KA-59-318**		11		**1.25**	31.8	**1.81**	46.0	**0.75**	19.1	**1.49**	37.9	**0.88**	22.4	**0.63**	16.0	209A	KTH-2004	KTJ-24	KTD-81

ANGLE PLUGS
JACKS

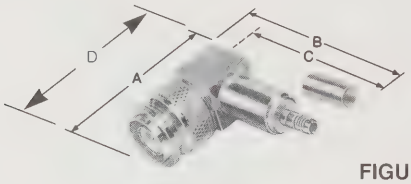


FIGURE 14

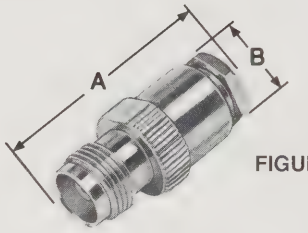


FIGURE 15

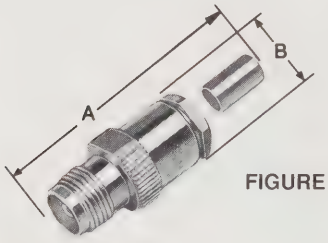


FIGURE 16

ANGLE PLUGS – K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS								CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		C		D		CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm	in	mm	in	mm				
C-1	**KA-59-294**		M39012/30-0501	14	Crimp & Captive Contact	**1.13**	28.7	**1.79**	45.5	**1.42**	36.1	**0.89**	22.6	465	KTH-2007	KTJ-116	KTD-161
C-2	**KA-59-295**		M39012/30-0502	14	Crimp & Captive Contact	**1.13**	28.7	**1.79**	45.5	**1.42**	36.1	**0.89**	22.6	465	KTH-2007	KTJ-116	KTD-161
D	**KA-59-235**	**KA-59-264**	M39012/30-0010	14	Crimp & Captive Contact	**1.12**	28.5	**1.40**	35.6	**1.08**	27.4	**0.87**	22.1	465	KTH-2001	KTJ-113	KTD-166
D	**KA-59-297**		M39012/30-0504	14	Crimp & Captive Contact	**1.13**	28.7	**1.79**	45.5	**1.42**	36.1	**0.89**	22.6	465	KTH-2001	KTJ-113	KTD-166
E-1	**KA-59-236**	**KA-59-273**	M39012/30-0011	14	Crimp & Captive Contact	**1.12**	28.5	**1.40**	35.6	**1.08**	27.4	**0.87**	22.1	465	KTH-2001	KTJ-113	KTD-166
E-1	**KA-59-296**		M39012/30-0503	14	Crimp & Captive Contact	**1.13**	28.7	**1.79**	45.5	**1.42**	36.1	**0.89**	22.6	465	KTH-2001	KTJ-113	KTD-166

ANGLE PLUGS – PRE-ASSEMBLED K-GRIP, JR. CONSTRUCTION

B	**KA-59-281**			14		**1.12**	28.5	**1.63**	41.4	**1.32**	33.5	**0.87**	22.1	465	KTH-2011	KTJ-148	KTD-203

JACKS – CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm				
C-1	**KA-39-88**		M39012/27-0103	15	Captive Contact	**1.15**	29.2	**0.56**	14.2	1050			
DE	**KA-31-02**	**KA-39-65**		15		**1.15**	29.2	**0.56**	14.2	1004			
DE	**KA-39-87**		M39012/27-0101	15	Captive Contact	**1.15**	29.2	**0.56**	14.2	1004			
141SR RG-402/U	**KA-39-101-MAA**			NS	Passivated Stainless Steel Body, Captive Cont., Gold Plated, Gold Plated Cable Adapter					701			

JACKS – K-GRIP CONSTRUCTION

E-2	**KA-39-15**			16		**1.24**	31.5	**0.56**	14.2	201A	KTH-2001	KTJ-17	KTD-77

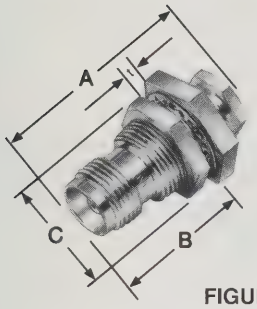


FIGURE 17

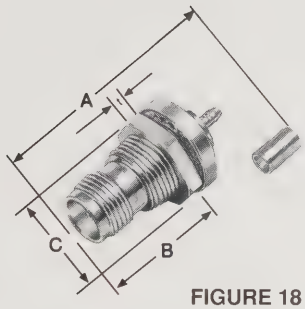


FIGURE 18

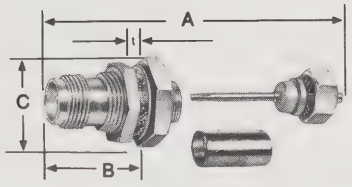
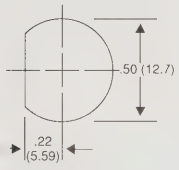


FIGURE 19



MTG. HOLE A

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B	**KA-19-171**		M39012/28-0018	17	Captive Contact, Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1050			
DE	**KA-19-19**		M39012/28-0101	17	Captive Contact, Rear Mtg.	**1.15**	29.2	**0.81**	20.6	**0.69**	17.5	**0.242**	6.2	A	1004			
G	**KA-19-172**		M39012/28-0102	17	Captive Contact, Rear Mtg.	**1.16**	29.5	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	1050			

TAPER GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
TIMES AA5300	**122-16-5**			17	Rear Mtg , Capt. Cont., Gold Pltd.	**1.11**	28.2	**0.77**	19.6	**0.69**	17.5	**0.125**	3.2	A	2201			

K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B	**KA-19-42**	**KA-19-60**		18	Rear Mtg., Crimp & Captive Cont.	**1.39**	35.3	**0.80**	20.3	**0.69**	17.5	**0.242**	6.2	A	5416	KTH-2032	KTJ-47	KTD-154
C-1	**KA-19-150**		M39012/28-0501	18	Rear Mtg., Crimp & Captive Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2007	KTJ-116	KTD-161
C-2	**KA-19-151**		M39012/28-0502	18	Rear Mtg., Crimp & Captive Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2007	KTJ-116	KTD-161
D	**KA-19-153**		M39012/28-0504	18	Rear Mtg., Crimp & Captive Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
E-1	**KA-19-102**	**KA-19-134**	M39012/28-0011	18	Rear Mtg., Crimp & Captive Cont.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
E-1	**KA-19-152**		M39012/28-0503	18	Rear Mtg., Crimp & Captive Cont.	**1.40**	35.6	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2001	KTJ-113	KTD-166
G-1	**KA-19-43**	**KA-19-43-M06**		18	Rear Mtg., Crimp Contact	**1.57**	39.9	**0.80**	20.3	**0.69**	17.5	**0.241**	6.1	A	405	KTH-2002	KTJ-58	KTD-42
G-1	**KA-19-103**		M39012/28-0012	18	Rear Mtg., Crimp & Captive Cont.	**1.55**	39.4	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2002	KTJ-113	KTD-184

PRE-ASSEMBLED K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B-1	**KA-19-147**			19	Rear Mtg.	**1.62**	41.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2011	KTJ-116	KTD-245
B-1	**122-3-5**		M39012/28-0022	19	Rear Mtg.	**1.62**	41.2	**0.81**	20.6	**0.69**	17.5	**0.241**	6.1	A	465	KTH-2011	KTJ-116	KTD-245

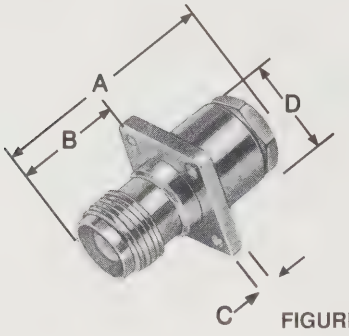


FIGURE 20

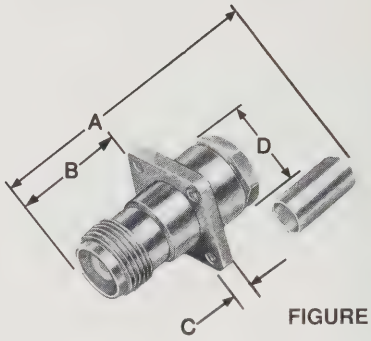


FIGURE 21

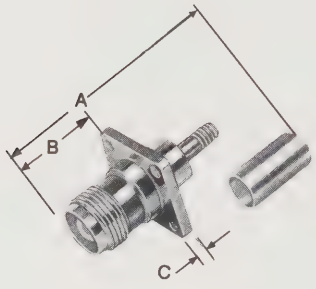
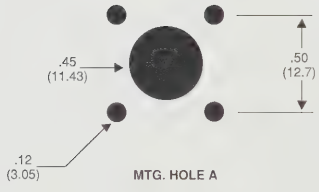


FIGURE 22



CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B	**KA-19-181**		M39012/29-0018	20	Captive Contact	**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	A	1050			
DE	**KA-19-176**		M39012/29-0101	20	Captive Contact	**1.15**	29.2	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	A	1050			
G	**KA-19-177**		M39012/29-0102	20	Captive Contact	**1.16**	29.5	**0.55**	14.0	**0.09**	2.3	**0.50**	12.7	A	1050.3			
K-GRIP/PRE-ASSEMBLED K-GRIP JR CONSTRUCTION.																		
A		**121-12-9**		22	Pre-Assembled K-Grip Jr., Crimp & Capt. Cont., Gold Plate	**1.33**	34.0	**0.56**	14.2	**0.09**	2.3			A	1901	KTH-2011	KTJ-222	KTD-159
B-1		**121-11-9**		22	Pre-Assembled K-Grip Jr., Crimp & Capt. Cont., Gold Plate	**1.33**	34.0	**0.56**	14.2	**0.09**	2.3			A	1901	KTH-2008	KTJ-222	KTD-159
D	**KA-19-51**			21	K-Grip	**1.24**	31.5	**0.64**	16.3	**0.09**	2.3	**0.50**	12.7	A	201A	KTH-2001	KTJ-17	KTD-77

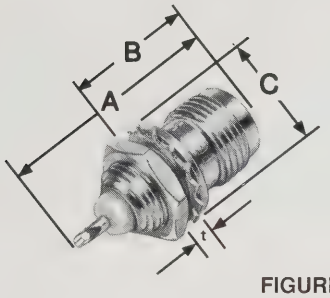


FIGURE 23

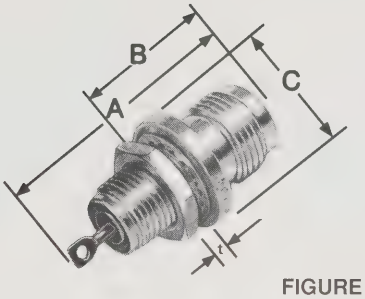


FIGURE 24

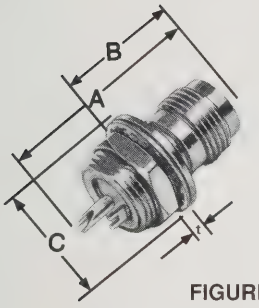


FIGURE 25

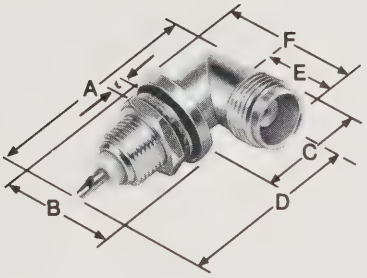


FIGURE 26

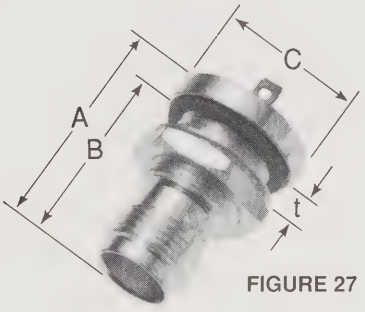
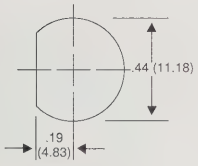
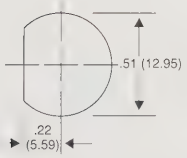


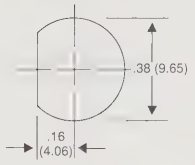
FIGURE 27



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

STRAIGHT BULKHEAD RECEPTACLES

CABLE GROUP	KINGS PART NUMBER: SILVER FINISH (or as noted)	KINGS PART NUMBER: TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS: A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE
	KA-71-02	**KA-79-27**	M39012/31-0001	23	Front Mount	**1.05**	26.7	**0.48**	12.2	**0.50**	12.7	**0.135**	3.4	A
	KA-71-03		M39012/34-0001	27	Hermetic Seal, Rear Mount	**1.21**	30.7	**0.83**	21.1	**0.68**	17.3	**0.163**	4.1	B
	KA-71-04		M39012/34-0002	24	Hermetic Seal, Front Mount	**1.21**	30.7	**0.52**	13.2	**0.59**	15.0	**0.273**	6.9	C
	KA-71-08	**KA-79-65**	M39012/31-0002	23	Front Mount	**1.19**	30.2	**0.47**	11.9	**0.50**	12.7	**0.260**	6.6	C
	KA-79-13	**KA-79-28**		23	Front Mount	**1.05**	26.7	**0.47**	11.9	**0.50**	12.7	**0.132**	3.4	C
		KA-79-59		25	Isolated Ground, Front Mount	**1.06**	26.9	**0.52**	13.2	**0.56**	14.2	**0.174**	4.4	B
	KA-79-159-MAA			27	Hermetic Seal, Rear Mount, Passivated Stainless Steel Body	**1.21**	30.7	**0.83**	21.1	**0.68**	17.3	**0.163**	4.1	B

ANGLE BULKHEAD RECEPTACLES

KINGS PART NUMBER: SILVER FINISH	KINGS PART NUMBER: TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS: A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	t in	t mm	MTG. HOLE
KA-79-77		M39012/33-0001	26	Front Mounting	**1.35**	34.3	**0.59**	15.0	**0.59**	15.0	**1.15**	29.2	**0.61**	15.5	**0.91**	23.1	**0.294**	7.5	C
KA-79-78		M39012/33-0002	26	Front Mounting	**1.24**	31.5	**0.60**	15.2	**0.62**	15.8	**1.02**	25.9	**0.61**	15.5	**0.91**	23.1	**0.169**	4.3	A

PANEL RECEPTACLES
PC RECEPTACLES

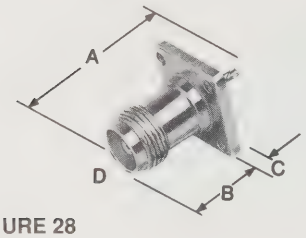


FIGURE 28

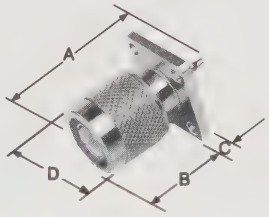


FIGURE 29

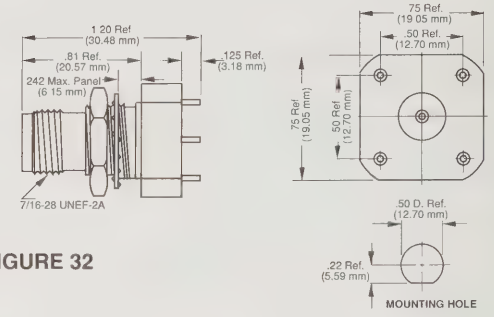


FIGURE 32

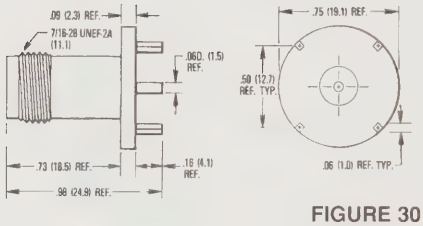


FIGURE 30

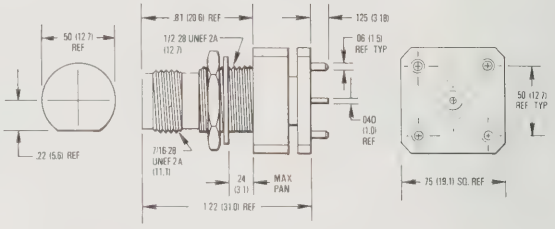
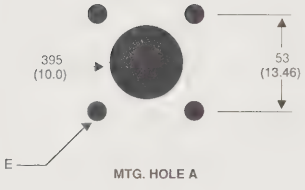
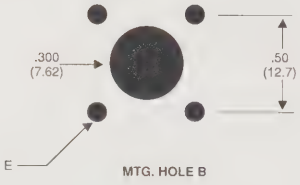
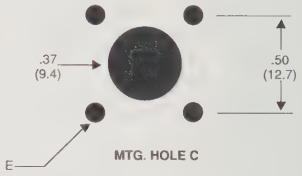


FIGURE 31







PANEL RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS												MTG. HOLE
					A		B		C		D		E		F		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KA-71-09	**KA-79-128**		29	Male	**1.17**	29.7	**0.75**	19.1	**0.09**	2.3	**0.59**	15.0	**0.125**	3.2					A
KA-79-02			28	Hermetic Seal	**0.83**	21.1	**0.44**	11.2	**0.09**	2.3	**0.44**	11.2	**0.11**	2.8					B
KA-79-39		M39012/32-0001	28		**1.06**	26.9	**0.62**	15.8	**0.09**	2.3	**0.44**	11.2	**0.120**	3.1					C

RF RECEPTACLES FOR PRINTED CIRCUIT BOARDS

KINGS PART NUMBER			FIG. NO.	NOTES	MAX PC BD. THICKNESS		PLATING	
							MTG.	
SILVER FINISH	TR-5 FINISH				in	mm	PINS	CONTACT
	KA-79-151-M06		30		**1/8**	3.2	TR-5	Gold
	KA-79-162-M06		32		**1/8**	3.2	Silver	Silver
	KA-79-165-M06		31		**1/8**	3.2	Silver	Gold

ADAPTERS WITHIN SERIES

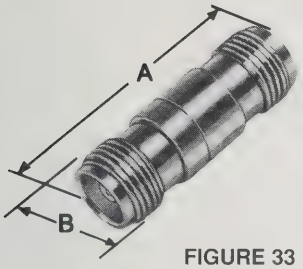


FIGURE 33

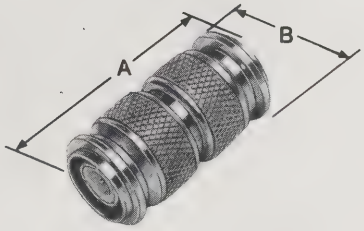


FIGURE 34

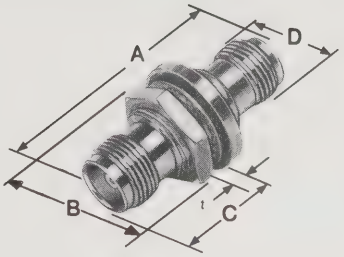


FIGURE 35

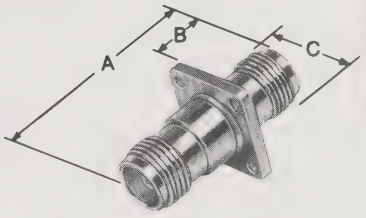


FIGURE 36

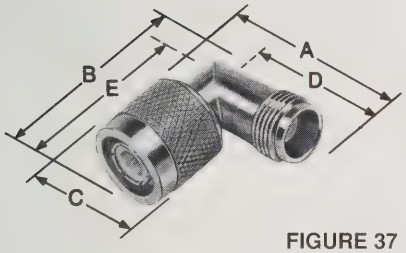


FIGURE 37

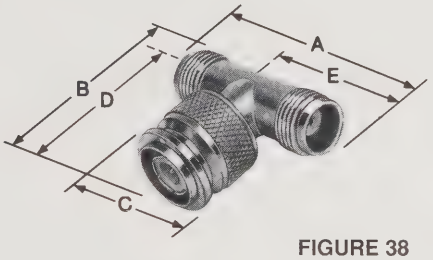


FIGURE 38

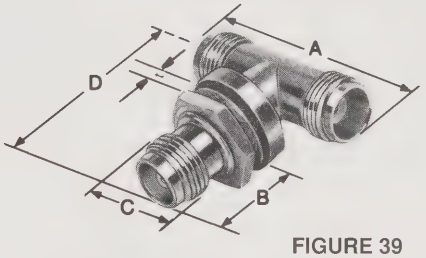


FIGURE 39

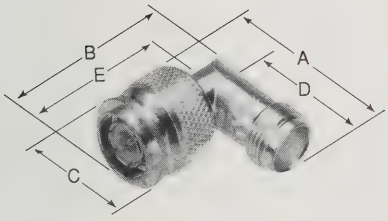
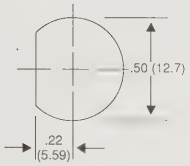
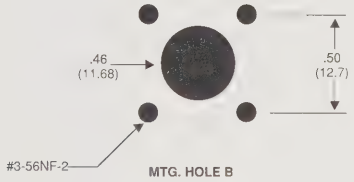


FIGURE 40



MTG. HOLE A



MTG. HOLE B

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS												MTG. HOLE
						A		B		C		D		E		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KA-91-01	**KA-99-62**		33	Jck-Jck		**1.28**	32.5	**0.44**	11.2									
KA-91-02	**KA-99-56**		35	Jck-Jck	Rexolite Ins., Pressurized (Hermetic Seal)	**1.39**	35.3	**0.73**	18.5	**0.73**	18.5	**0.44**	11.2			**0.16**	4.1	A
KA-91-03	**KA-99-63**		34	Plg-Plg		**1.26**	32.0	**0.63**	16.0									
KA-91-04	**KA-99-74**		36	Jck-Jck		**1.28**	32.5	**0.50**	12.7	**0.44**	11.2							B
KA-91-05	**KA-99-65**		40	Plg-Jck	Right Angle	**1.04**	26.4	**1.06**	26.9	**0.63**	16.0	**0.73**	18.5	**0.84**	21.3			
KA-91-14	**KA-91-14-M06**		34	Plg-Plg		**1.26**	32.0	**0.59**	15.0									
KA-91-15			37	Plg-Jck	Right Angle	**1.02**	25.9	**1.06**	26.9	**0.59**	15.0	**0.73**	18.5	**0.84**	21.3			
KA-91-16	**KA-99-60**		38	Jck-Plg-Jck		**1.28**	32.2	**1.11**	28.2	**0.59**	15.0	**0.89**	22.6	**0.64**	16.3			
KA-99-79			35	Jck-Jck	Isolated Ground	**1.28**	32.2	**0.43**	10.9	**0.63**	16.0	**0.44**	11.2			**0.177**	4.5	A
	KA-99-114-M06		35	Jck-Jck		**1.28**	32.2	**0.63**	16.0	**0.73**	18.5	**0.44**	11.2			**0.16**	4.1	A
129-4		M55339/35-00001	38	Jck-Plg-Jck		**1.28**	32.2	**1.11**	28.2	**0.63**	16.0	**0.89**	22.6	**0.64**	16.3			
129-6	**129-6-M06**	M55339/50-00001	39	Jck-Jck-Jck		**1.28**	32.2	**0.71**	18.0	**0.44**	11.2	**1.14**	29.0			**0.138**	3.5	

TERMINATIONS

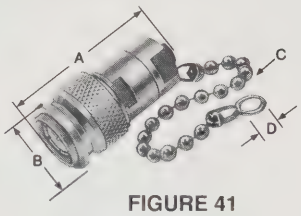


FIGURE 41

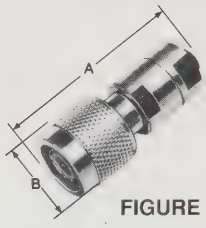


FIGURE 42

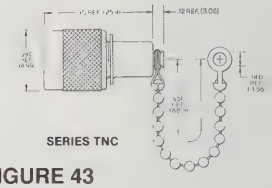


FIGURE 43

TERMINATIONS

KINGS PART NUMBER						DIMENSIONS							
SILVER FINISH	TR-5 FINISH		FIG. NO.	DESCRIPTION	NOTES	A		B		C		D	
						in	mm	in	mm	in	mm	in	mm
KA-89-05 ( )	**KA-89-51 ( )**		41	Male with Bead Chain	Resistance per user specs	**1.33**	33.8	**0.63**	16.0	**3.50**	88.9	**0.14**	3.6
	KA-89-15		42	Male without Chain	50 ohm, 1%, 1/2 watt, Non-Inductive	**1.42**	36.1	**0.59**	15.0				

ECONOMY TYPE

KINGS PART NUMBER				
TR-5 FINISH	FIG. NO.	DESCRIPTION	NOTES	CHARACTERISTIC IMPEDANCE
1355-5-31	43	Male without Chain	50 ohm 1% 1/2 watt	50 ohm
1355-5-32	43	Male without Chain	50 ohm, 0.1%, 1/2 watt	50 ohm
1355-5-33	43	Male without Chain	51 ohm, 5%, 1/2 watt	50 ohm
1355-5-34	43	Male without Chain	75 ohm, 5%, 1/2 watt	50 ohm
1355-5-35	43	Male without Chain	75 ohm, 1%, 1/2 watt	50 ohm
1355-5-36	43	Male without Chain	75 ohm, 0.1%, 1/2 watt	50 ohm
1355-5-37	43	Male without Chain	91 ohm, 1%, 1/2 watt	50 ohm
1355-5-38	43	Male without Chain	91 ohm, 5%, 1/2 watt	50 ohm
1355-5-39	43	Male without Chain	93 ohm, 1%, 1/2 watt	50 ohm
1355-5-40	43	Male without Chain	93 ohm, 0.1%, 1/2 watt	50 ohm
1355-6-31	43	Male with Bead Chain	50 ohm, 1%, 1/2 watt	50 ohm
1355-6-32	43	Male with Bead Chain	50 ohm, 0.1%, 1/2 watt	50 ohm
1355-6-33	43	Male with Bead Chain	51 ohm, 5%, 1/2 watt	50 ohm
1355-6-34	43	Male with Bead Chain	75 ohm, 5%, 1/2 watt	50 ohm
1355-6-35	43	Male with Bead Chain	75 ohm, 1%, 1/2 watt	50 ohm
1355-6-36	43	Male with Bead Chain	75 ohm, 0.1%, 1/2 watt	50 ohm
1355-6-37	43	Male with Bead Chain	91 ohm, 1%, 1/2 watt	50 ohm
1355-6-38	43	Male with Bead Chain	91 ohm, 5%, 1/2 watt	50 ohm
1355-6-39	43	Male with Bead Chain	93 ohm, 1%, 1/2 watt	50 ohm
1355-6-40	43	Male with Bead Chain	93 ohm, 0.1%, 1/2 watt	50 ohm
2565-5-30	43	Male without Chain	75 ohm, 5%, 1/2 watt	75 ohm
2565-5-31	43	Male without Chain	75 ohm, 1%, 1/2 watt	75 ohm
2565-5-32	43	Male without Chain	75 ohm, 0.1%, 1/2 watt	75 ohm
2565-6-30	43	Male with Bead Chain	75 ohm, 5%, 1/2 watt	75 ohm
2565-6-31	43	Male with Bead Chain	75 ohm, 1%, 1/2 watt	75 ohm
2565-6-32	43	Male with Bead Chain	75 ohm, 0.1%, 1/2 watt	75 ohm

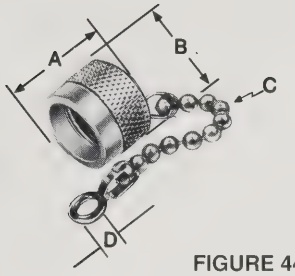


FIGURE 44

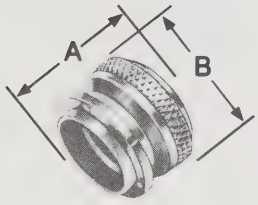


FIGURE 45

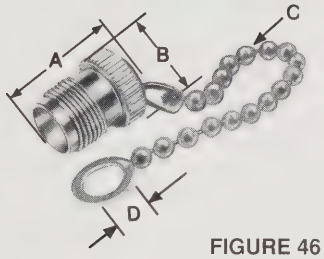
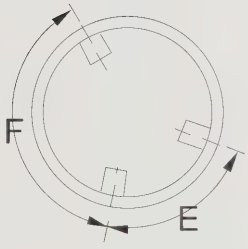


FIGURE 46



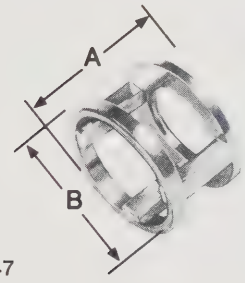


FIGURE 47

ACCESSORIES

KINGS PART NUMBER						DIMENSIONS							
						A		B		C		D		E	F
SILVER FINISH	TR-5 FINISH		FIG. NO.	DESCRIPTION	NOTES	in	mm	in	mm	in	mm	in	mm		
KA-81-01	**KA-89-18**		44	Cap – Male with Bead Chain		**0.58**	14.7	**0.63**	16.0	**2.25**	57.2	**0.14**	3.6		
KA-81-02			46	Cap – Female with Bead Chain		**0.68**	17.3	**0.50**	12.7	**3.00**	76.2	**0.28**	7.1		
KA-81-04			45	Cap – Male		**0.48**	11.4	**0.63**	16.0						
KA-81-05			44	Cap – Male with Bead Chain		**0.55**	14.0	**0.60**	15.2	**2.25**	57.2	**0.14**	3.6		
128-3-5			NS	Cap for Keyed Connectors											
KA-89-41			47	Keying Basket	Replaced by KA-89-64-M07	**0.43**	11.7	**0.73**	18.5					72°	120°
KA-89-42			47	Keying Basket	Replaced by KA-89-65-M07	**0.43**	11.7	**0.73**	18.5					96°	96°
KA-89-43			47	Keying Basket	Replaced by KA-89-66-M07	**0.43**	11.7	**0.73**	18.5					120°	144°
KA-89-64-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					120°	72°
KA-89-65-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					96°	96°
KA-89-66-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					144°	120°
KA-89-67-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					144°	72°
KA-89-83-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					120°	120°
KA-89-84-M07			47	Keying Basket		**0.43**	11.7	**0.73**	18.5					72°	120°

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

C series RF connectors are a medium size bayonet coupling connector similar in size to the N connector. The C connector basically handles coaxial cables from 350" to 450" OD, however designs accommodate .078" to .875" cables. Frequency range is 0 to 11 GHz. The C connector is a 50 ohm constant impedance connector using an overlapping dielectric interface and is weatherproof.

There is a high voltage type, noted in the listings, usable to 3000 volts rms with a frequency range of 0 to 2 GHz. These are matable with the standard C connectors.

Items qualified to MIL-C-39012 are included in the listings and also appear in the latest QPL list for MIL-C-39012.

CABLE GROUPS — RG/U, M17		
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59, M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
K	K-1	5, 5A, 5B, 21, 21A, M17/73-RG212, M17/162-00001
	K-2	6, 6A, M17/2-RG6
	K-3	143, 143A, 212, 222, M17/112-RG304, M17/73-RG212, M17/162-00001
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
R		14, 14A, 21/ (224)† M17/78-RG217 M17/165-00002
S		117, 117A, 211A (228)†, M17/72-RG211, M17/161-00002
T		17A, 218, (219)†, M17/79-RG218, M17/79-RG219
U†		10, 12, 215, M17/74-RG215, M17/6-RG12

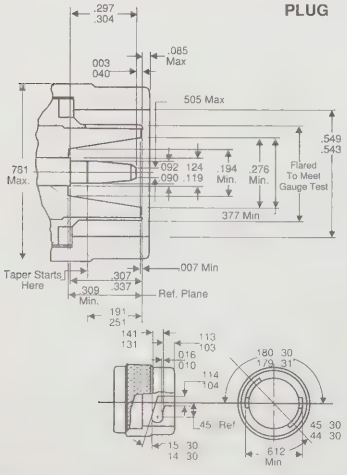
*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

†Armored.

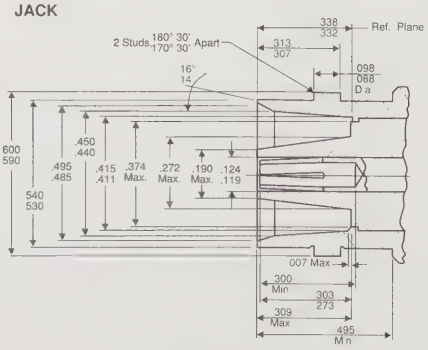
INTERFACE

Per MIL-C-39012 or MIL-STD-348 as applicable.

PLUG



JACK



SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 11 GHz 0 to 2 GHz (high voltage type)
Voltage Rating	1000 volts rms 3000 volts rms (high voltage type)
Dielectric Withstanding Voltage	3000 volts rms
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.35 max .5-11 GHz
Contact Resistance (MIL-C-39012 cable connectors) Center Contacts Outer Contacts (silver plate)	 1.0 milliohms .15 milliohms
Insertion Loss (MIL-C-39012 cable	.15 dB max at 9 GHz

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition I
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	2 stud bayonet coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention Non-Crimp Crimp	 75 pounds min. 50 to 90 lbs depending on cable size.
Center Contact Retention	6 lbs. min. axial force. Applicable to captivated center contact connectors only.
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0001" (.0025 mm) min. hard gold plate, MIL-G-45204B. 2. All other items .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment, unless otherwise noted.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

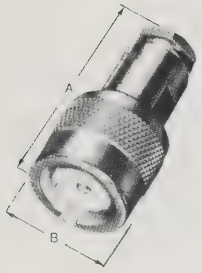


FIGURE 1

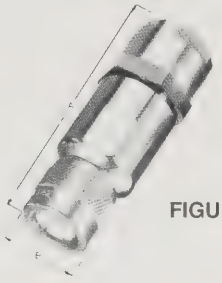


FIGURE 2

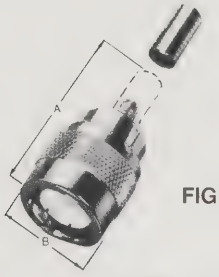


FIGURE 3

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
DE	**KD-59-130**		M39012/15-0002	1		**1.36**	34.5	**0.75**	19.1	1015			
DE	**UG-709A/U**			1		**1.34**	34.0	**0.75**	19.1	1015			
DE	**UG-709B/U**	**KD-59-97**		1		**1.36**	34.5	**0.75**	19.1	1015			
G	**KD-59-135**		M39012/15-0001	1		**1.36**	34.5	**0.75**	19.1	1013.3			
G	**UG-627A/U**			1		**1.35**	34.3	**0.75**	19.1	1013.3			
G	**UG-627B/U**	**KD-59-92**		1		**1.36**	34.3	**0.75**	19.1	1013.3			
MN	**KD-59-119**		M39012/06-0002	1		**1.47**	37.3	**0.75**	19.1	1022			
MN	**UG-573A/U**	**KD-59-140**		1		**1.45**	36.8	**0.75**	19.1	1022			
MN	**UG-573B/U**	**KD-59-141**		1		**1.47**	37.3	**0.75**	19.1	1022			
MN	**UG-628A/U**			1	High Voltage Type	**1.76**	44.7	**0.75**	19.1	1033			
MN	**UG-943B/U**			2		**2.13**	54.1	**0.75**	19.1	R			
R	**UG-707B/U**			1		**1.63**	41.4	**0.88**	22.4	1040			
S	**UG-711B/U**			1		**2.15**	54.6	**1.31**	33.3	1018			
T	**UG-708B/U**			1		**2.13**	54.1	**1.31**	33.3	1018			
RG-307/U	**KD-59-182-M07**			1	Taper Grip	**1.36**	34.5	**0.75**	19.1	2206			

K-GRIP, JR. CONSTRUCTION

D	**KD-59-62**	**KD-59-96**		3		**1.40**	35.6	**0.75**	19.1	403	KTH-2001	KTJ-67	KTD-51
E-1	**KD-59-63**			3		**1.40**	35.6	**0.75**	19.1	403	KTH-2001	KTJ-67	KTD-51
E-2	**KD-59-64**			3		**1.40**	35.6	**0.75**	19.1	403	KTH-2001	KTJ-67	KTD-51
G-1	**KD-59-65**	**KD-59-89**		3		**1.40**	35.6	**0.75**	19.1	414	KTH-2002	KTJ-66	KTD-31
M-1	**KD-59-51**	**KD-59-98**		3	Crimp Contact	**1.30**	33.0	**0.75**	19.1	433	KTH-2003	KTJ-79	KTD-28
N-1	**KD-59-52**	**KD-59-99**		3	Crimp Contact, Gold Plate	**1.30**	33.0	**0.75**	19.1	433	KTH-2004	KTJ-79	KTD-28

R — request from factory.

ANGLE PLUGS

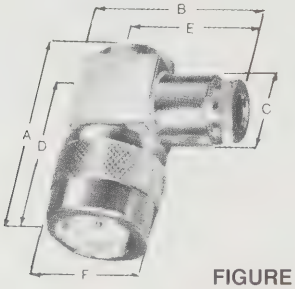


FIGURE 4

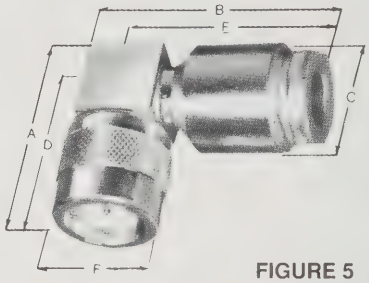


FIGURE 5

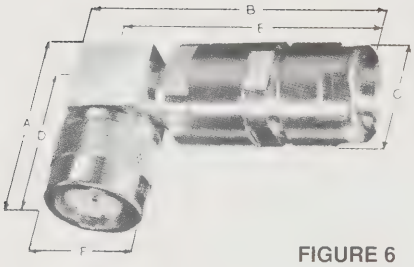


FIGURE 6

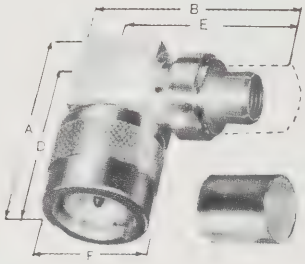


FIGURE 7

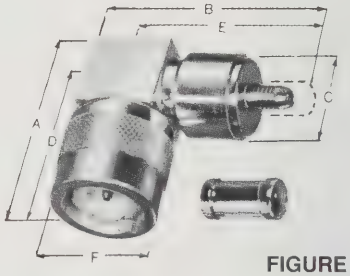


FIGURE 8

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
DE	**KD-59-47**			4		**1.33**	33.8	**1.20**	30.5	**0.50**	12.7	**0.95**	24.1	**0.82**	20.8	**0.75**	19.1	1025			
MN	**KD-59-134**		M39012/10-0001	5		**1.35**	34.3	**1.64**	41.7	**0.75**	19.1	**0.97**	24.6	**1.26**	32.0	**0.75**	19.1	1030			
MN	**UG-710A/U**			5		**1.35**	34.3	**1.62**	41.2	**0.75**	19.1	**0.97**	24.6	**1.24**	31.5	**0.75**	19.1	1030			
MN	**UG-710B/U**	**KD-59-84**		5		**1.35**	34.3	**1.62**	41.2	**0.75**	19.1	**0.97**	24.6	**1.24**	31.5	**0.75**	19.1	1030			
U	**UG-945B/U**			6	Armor Clamp	**1.35**	34.3	**2.27**	57.7	**0.75**	19.1	**0.97**	24.6	**1.89**	48.0	**0.75**	19.1	1607			

K-GRIP, JR. CONSTRUCTION

D	**KD-59-67**			7		**1.27**	32.3	**1.60**	40.6	**0.59**	15.0	**0.97**	24.6	**1.23**	31.2	**0.75**	19.1	415	KTH-2001	KTJ-65	KTD-38
E		**KD-59-202-M06**		8	Weatherproof K-Grip Crimp & Capt. Cont.	**1.30**	33.0	**2.11**	53.6	**0.59**	15.0	**0.97**	24.6	**1.74**	44.2	**0.75**	19.1	5406	KTH-2101	KTJ-160	KTD-208
E-1	**KD-59-68**			7		**1.27**	32.3	**1.60**	40.6	**0.59**	15.0	**0.97**	24.6	**1.23**	31.2	**0.75**	19.1	415	KTH-2001	KTJ-65	KTD-38
E-2	**KD-59-69**			7		**1.27**	32.3	**1.60**	40.6	**0.59**	15.0	**0.97**	24.6	**1.23**	31.2	**0.75**	19.1	415	KTH-2001	KTJ-65	KTD-38
G-1	**KD-59-70**			7		**1.27**	32.3	**1.69**	49.9	**0.59**	15.0	**0.97**	24.6	**1.31**	33.3	**0.75**	19.1	469	KTH-2002	KTJ-126	KTD-96
M-1	**KD-59-60**	**KD-59-107**		7	Crimp Contact	**1.27**	32.3	**1.55**	39.4	**0.59**	15.0	**0.97**	24.6	**1.18**	30.0	**0.75**	19.1	401	KTH-2003	KTJ-77	KTD-115
N-1	**KD-59-61**			7	Crimp Contact	**1.27**	32.3	**1.55**	39.4	**0.59**	15.0	**0.97**	24.6	**1.18**	30.0	**0.75**	19.1	401	KTH-2003	KTJ-77	KTD-115
N-3		**KD-59-159**		7	Crimp & Capt. Cont., Gold Plate	**1.27**	32.3	**2.03**	51.6	**0.59**	15.0	**0.97**	24.6	**1.65**	41.9	**0.75**	19.1	480	KTH-2004	KTJ-137	KTD-138

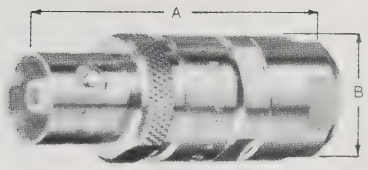


FIGURE 9

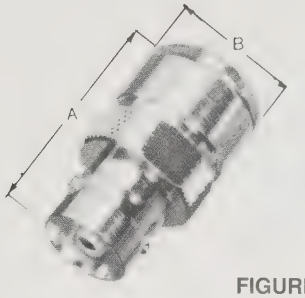


FIGURE 10

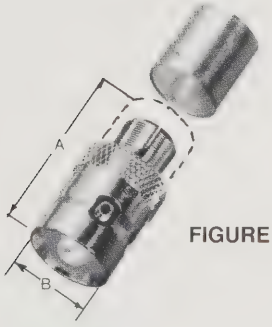


FIGURE 11

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm				
K	**UG-633/U**			10		**1.36**	34.5	**0.75**	19.1	1022			
K	**UG-633A/U**			10		**1.38**	35.1	**0.75**	19.1	1022			
K	**793-5-5**		M39012/07-0018	9		**1.36**	34.5	**0.75**	19.1	1022			
MN	**UG-572/U**			10		**1.36**	34.5	**0.75**	19.1	1022			
MN	**UG-572A/U**			10		**1.36**	34.5	**0.75**	19.1	1022			
MN	**793-1-5**		M39012/07-0017	9		**1.36**	34.5	**0.75**	19.1	1022			
R	**KD-39-26**			10	Center Contact Gold Plate	**1.57**	39.9	**0.88**	22.4	1042			
T	**KD-39-45**			10	Center Contact Gold Plate	**2.08**	52.8	**1.31**	33.3	1018			
U	**UG-944/U**			9	Armor Clamp	**2.02**	51.3	**0.75**	19.1	1606			
U	**UG-944A/U**			9	Armor Clamp	**2.04**	51.8	**0.75**	19.1	1606			

K-GRIP, JR. CONSTRUCTION

D	**KD-39-14**	**KD-39-25**		11		**1.31**	33.3	**0.56**	14.2	403	KTH-2001	KTJ-10	KTD-51
E-1	**KD-39-17**			11		**1.31**	33.3	**0.56**	14.2	403	KTH-2001	KTJ-10	KTD-51
E-2	**KD-39-18**			11		**1.31**	33.3	**0.56**	14.2	403	KTH-2001	KTJ-10	KTD-51
G-1	**KD-39-15**			11		**1.31**	33.3	**0.56**	14.2	414	KTH-2002	KTJ-9	KTD-31
K	**KD-39-13**			11		**1.21**	30.7	**0.54**	13.7	433	KTH-2005	KTJ-79	KTD-50
M	**KD-39-11**	**KD-39-23**		11		**1.21**	30.7	**0.54**	13.7	433	KTH-2003	KTJ-79	KTD-28
N-1, -2	**KD-39-12**	**KD-39-24**		11		**1.21**	30.7	**0.54**	13.7	433	KTH-2004	KTJ-79	KTD-28

BULKHEAD JACKS

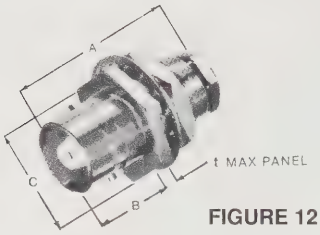


FIGURE 12

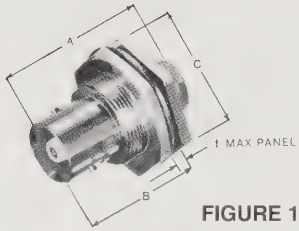


FIGURE 13

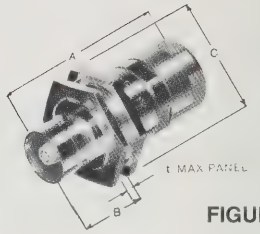


FIGURE 14

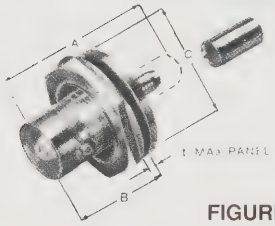
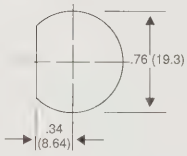
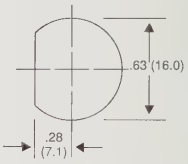


FIGURE 15



MTG. HOLE A



MTG. HOLE B

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS								MTG. HOLE	CABLING			
						A		B		C		t			CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm					
DE	**UG-704/U**			12	Front Mount	**1.25**	31.8	**0.59**	15.0	**0.75**	19.1	**0.242**	6.2	B	1015			
DE	**UG-704A/U**			12	Front Mount	**1.27**	32.3	**0.59**	15.0	**0.75**	19.1	**0.220**	5.6	B	1015			
DE	**UG-704B/U**			12	Front Mount	**1.27**	32.3	**0.59**	15.0	**0.75**	19.1	**0.220**	5.6	B	1015			
G	**UG-631/U**			12	Front Mount	**1.24**	31.5	**0.59**	15.0	**0.75**	19.1	**0.266**	6.8	B	1013			
G	**UG-631A/U**			12	Front Mount	**1.26**	32.0	**0.59**	15.0	**0.75**	19.1	**0.224**	5.7	B	1013			
K	**UG-630/U**			12	Front Mount., Gold Pltd. Cont.	**1.38**	35.1	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1022			
K	**UG-630A/U**			13	Rear Mount	**1.38**	35.1	**0.75**	19.1	**1.00**	25.4	**0.127**	3.2	A	1022			
MN	**KD-19-73**		M39012/11-0002	13	Rear Mount	**1.42**	36.1	**0.89**	22.6	**1.00**	25.4	**0.260**	6.6	A	1022			
MN	**UG-570/U**			13	Rear Mount	**1.35**	34.3	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1022			
MN	**UG-570A/U**			13	Rear Mount	**1.37**	34.8	**0.75**	19.1	**1.00**	25.4	**0.127**	3.2	A	1022			
MN	**UG-632/U**			13	Rear Mount	**1.34**	34.0	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1033			
MN	**UG-632A/U**			13	Rear Mount	**1.36**	34.5	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1033			
U	**UG-937/U**			14	Rear Mount, Armor Clamp	**1.97**	50.0	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1606			
U	**UG-937A/U**			14	Rear Mount, Armor Clamp	**1.99**	50.6	**0.75**	19.1	**1.00**	25.4	**0.149**	3.8	A	1606			

K-GRIP, JR. CONSTRUCTION

D	**KD-19-93**			15	Rear Mtg., Gold Plated Center Contact	**1.47**	37.3	**0.75**	19.1	**1.00**	25.4	**0.135**	3.4	B	412	KTH-2001	KTJ-62	KTD-49
E-1	**KD-19-41**			15	Rear Mounting	**1.47**	37.3	**0.75**	19.1	**1.00**	25.4	**0.135**	3.4	B	412	KTH-2001	KTJ-62	KTD-49
G-1	**KD-19-39**	**KD-19-70**		15	Rear Mounting	**1.47**	37.3	**0.75**	19.1	**1.00**	25.4	**0.135**	3.4	B	417	KTH-2002	KTJ-13	KTD-36
M	**KD-19-36**			15	Rear Mounting	**1.47**	37.3	**0.75**	19.1	**1.00**	25.4	**0.135**	3.4	B	411	KTH-2003	KTJ-4	KTD-37
N-1, -2	**KD-19-37**	**KD-19-63**		15	Rear Mounting	**1.47**	37.3	**0.75**	19.1	**1.00**	25.4	**0.135**	3.4	B	411	KTH-2004	KTJ-4	KTD-37
N-3		**KD-19-90**		15	Rear Mtg., Captive Cont., Gold Plated	**1.81**	46.0	**0.89**	22.6	**1.00**	25.4	**0.280**	7.1	B	480	KTH-2004	KTJ-137	KTD-138

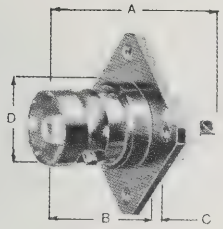


FIGURE 16

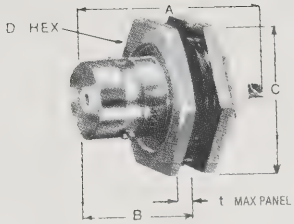


FIGURE 17

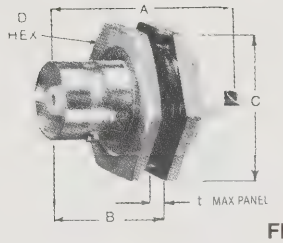


FIGURE 18

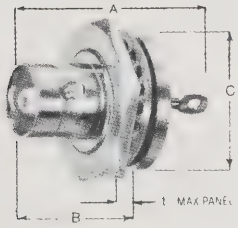


FIGURE 19

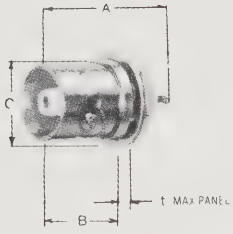
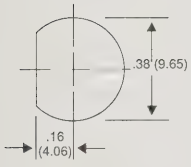
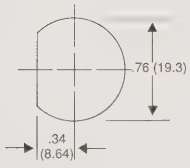


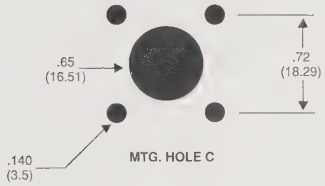
FIGURE 20



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS										MTG. HOLE
					A		B		C		D		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	
KD-79-13		M39012/13-0001	20	Front Mount	**1.11**	28.2	**0.58**	14.7	**0.60**	15.2			**0.119**	3.0	A
KD-79-16		M39012/14-0001	17	Rear Mount	**1.07**	27.2	**0.76**	19.3	**1.00**	25.4			**0.113**	2.9	B
UG-569/U			17	Rear Mount	**1.07**	27.2	**0.75**	19.1	**1.00**	25.4			**0.149**	3.8	B
UG-569A/U			17	Rear Mount	**1.07**	27.2	**0.75**	19.1	**1.00**	25.4			**0.127**	3.2	B
UG-634/U			18	Rear Mount	**1.31**	33.3	**0.75**	19.1	**1.00**	25.4			**0.149**	3.8	B
UG-705/U			19	Hermetic Seal, Rear Mount	**1.39**	35.3	**0.80**	20.3	**1.00**	25.4			**0.207**	5.3	B
UG-705A/U			19	Hermetic Seal, Rear Mount	**1.39**	35.3	**0.80**	20.3	**1.00**	25.4			**0.187**	4.8	B
UG-706/U			20	Front Mount	**1.11**	28.2	**0.58**	14.7	**0.60**	15.2			**0.115**	2.9	A
UG-706A/U	**KD-79-20**		20	Front Mount	**1.11**	28.2	**0.58**	14.7	**0.60**	15.2			**0.115**	2.9	A

PANEL RECEPTACLES

KD-79-14		M39012/12-0001	16	Center Contact Gold Plate	**1.08**	27.4	**0.67**	17.0	**0.08**	2.0	**0.63**	16.0			C
UG-568/U	**KD-79-19**		16		**1.08**	27.4	**0.67**	17.0	**0.08**	2.0	**0.63**	16.0			C

ADAPTERS WITHIN SERIES

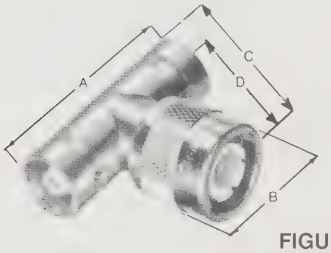


FIGURE 21

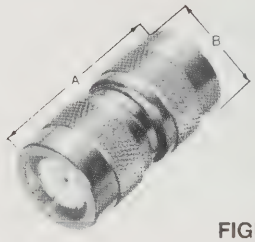


FIGURE 22

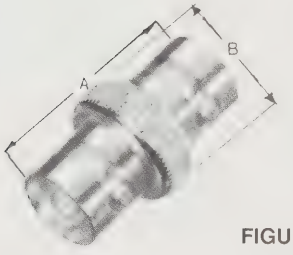


FIGURE 23

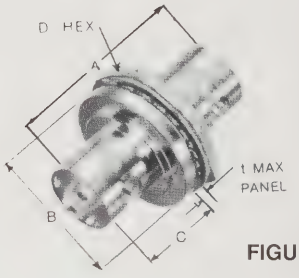


FIGURE 24

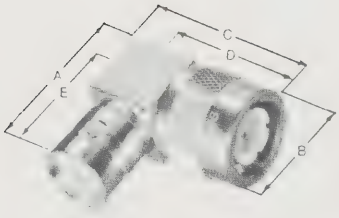
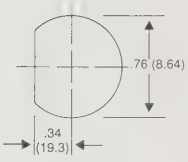


FIGURE 25



MTG. HOLE A

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS											
						A		B		C		D		E		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	MTG. HOLE
UG-566/U			21	Jck-Plg-Jck		1.52	38.6	0.75	19.1	1.34	34.0	1.05	26.7					
UG-566A/U			21	Jck-Plg-Jck		1.52	38.6	0.75	19.1	1.34	34.0	1.05	26.7					
UG-567/U			25	Plg-Jck	Right Angle	1.25	31.8	0.75	19.1	1.27	32.3	0.97	24.6	0.88	22.4			
UG-567A/U			25	Plg-Jck	Right Angle	1.25	31.8	0.75	19.1	1.27	32.3	0.97	24.6	0.88	22.4			
UG-642/U			22	Plg-Plg		1.39	35.3	0.75	19.1									
UG-642A/U			22	Plg-Plg		1.39	35.3	0.75	19.1									
UG-643/U			23	Jck-Jck		1.28	32.5	0.75	19.1									
UG-701/U			24	Jck-Jck	Hermetic Seal; No Lockwasher	1.53	38.9	1.00	25.4	0.72	18.3	1.00	25.4			0.212	5.4	A
UG-701A/U			24	Jck-Jck	Hermetic Seal; with Lockwasher	1.53	38.9	1.00	25.4	0.72	18.3	1.00	25.4			0.190	4.8	A
UG-1138/U			24	Jck-Jck	Hermetic Seal	1.48	37.6	1.00	25.4	0.62	15.8	1.00	25.4			0.255	6.5	A
UG-1138A/U			24	Jck-Jck	Hermetic Seal; Gold Plated Contacts	1.48	37.6	1.00	25.4	0.62	15.8	1.00	25.4			0.255	6.5	A
799-7			24	Jck-Jck	Hermetic Seal	1.48	37.6	1.00	25.4	0.86	21.8	1.00	25.4			0.240	6.1	A

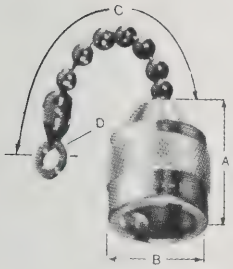


FIGURE 26

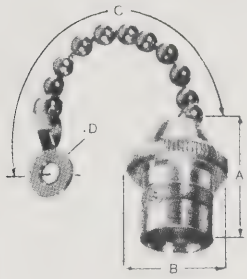


FIGURE 27

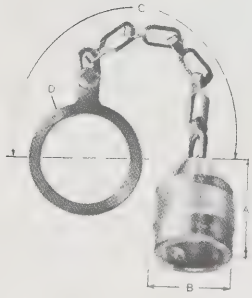


FIGURE 28

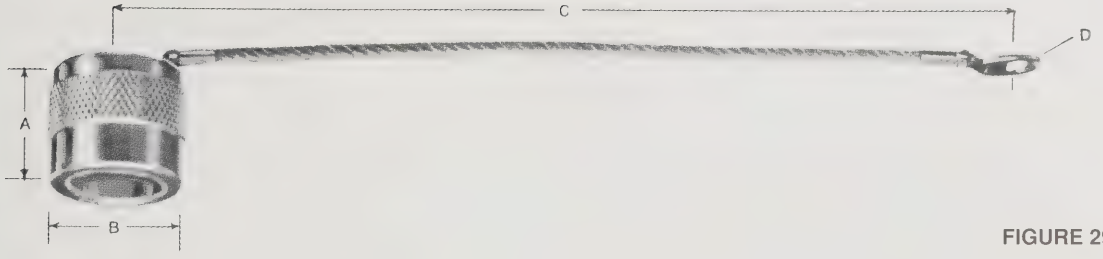


FIGURE 29

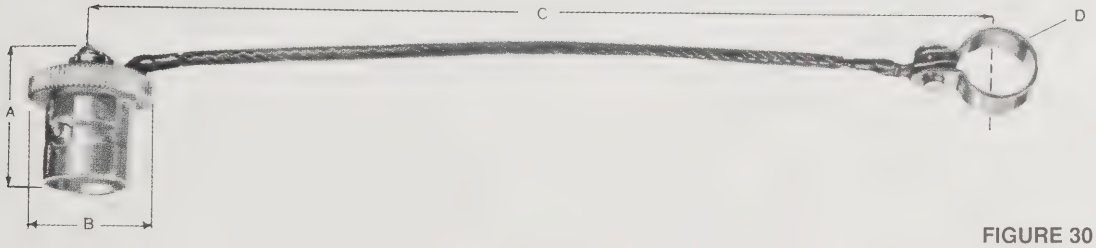


FIGURE 30

ACCESSORIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	DIMENSIONS							
					A		B		C		D	
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm
CW-594/U			29	Cap – Male with Wire Rope	**0.78**	19.8	**0.75**	19.1	**5.00**	127.0	**0.14**	3.6
CW-599/U			30	Cap – Female with Wire Rope	**0.78**	19.8	**0.75**	19.1	**5.00**	127.0	**0.43**	10.9
KD-89-07		M39012/25-0001	26	Cap – Male with Bead Chain	**0.91**	23.1	**0.75**	19.1	**2.75**	69.9	**0.14**	3.6
KD-89-08		M39012/25-0002	28	Cap – Male with Safety Chain	**0.91**	23.1	**0.75**	19.1	**3.50**	88.9	**0.76**	19.3
MX-1142/U			26	Cap – Male with Bead Chain	**0.78**	19.8	**0.75**	19.1	**2.50**	63.5	**0.14**	3.6
MX-1142A/U			26	Cap – Male with Bead Chain	**0.91**	23.1	**0.75**	19.1	**2.50**	63.5	**0.14**	3.6
MX-1143/U			27	Cap – Female with Bead Chain	**0.83**	21.1	**0.75**	19.1	**3.50**	88.9	**0.14**	3.6
MX-1143A/U			27	Cap – Female with Bead Chain	**0.90**	22.9	**0.75**	19.1	**3.50**	88.9	**0.14**	3.6

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

SC series RF connectors are a medium size, threaded coupling version of the C connector. They basically handle coaxial cables from .350" to 450" OD, however designs accommodate .078" to .875" cables. Frequency range is 0 to 11 GHz. The C connector is a 50 ohm constant impedance connector using an overlapping dielectric interface and is weatherproof.

SC connectors are used in severe environments and are popular in aircraft and high vibration applications. They are covered under MIL-C-39012.

CABLE GROUPS — RG/U, M17		
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E 1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142,
		M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
L		115A, M17/168-00001
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N 3	225, M17/127-RG393
P		393, M17/127-RG393

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

†Armored.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 11 GHz
Voltage Rating	1000 volts rms
Dielectric Withstanding Voltage	3000 volts rms 1500 volts rms (RG400, RG142)
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.3 max .5-11 GHz
Contact Resistance (MIL-C-39012 cable connectors)	
Center Contacts	1.0 milliohms
Outer Contacts (silver plate)	.15 milliohms
Insertion Loss (MIL-C-39012 cable connectors)	.15 dB max at 9 GHz

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition I
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	.6875-24 threaded coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention	
Non-Crimp	75 pounds min.
Crimp	50 to 90 lbs depending on size of cable.
Center Contact Retention	15 lbs. min. axial force except 6 lbs. min. RG400 and RG142. Applicable to captivated center contact connectors only.
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

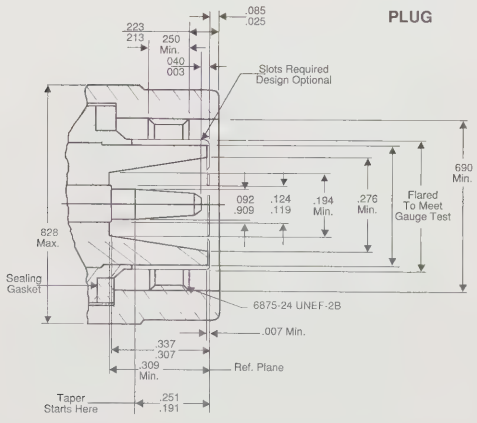
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

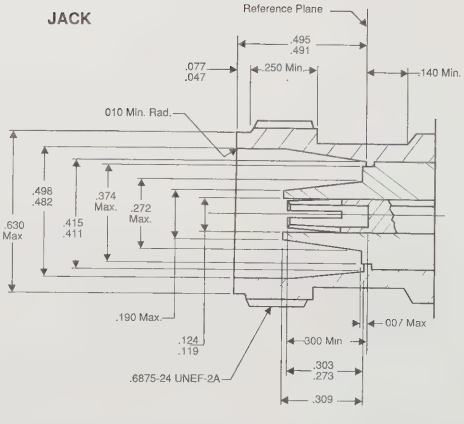
FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0001" (.0025 mm) min. hard gold plate, MIL-G-45204B. 2. All other items .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment, unless otherwise noted.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

Per MIL-C-39012 or MIL-STD-348 as applicable.





Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

PLUGS
ANGLE PLUGS

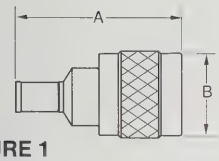


FIGURE 1

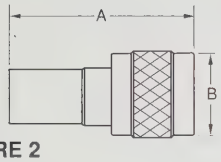
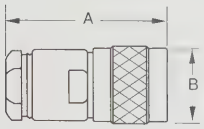


FIGURE 2



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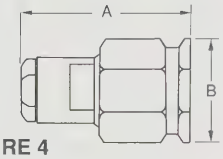

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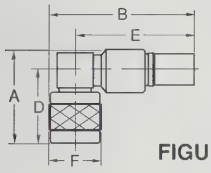

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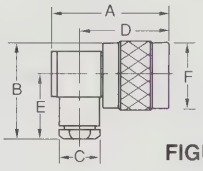

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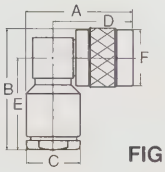

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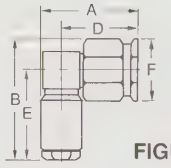


FIGURE 8

PLUGS

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	CONSTRUCTION / NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
D		**KG-59-29**	3	K-Grip, Wire Holes, Captive Contact, Gold Plated	**1.43**	36.3	**0.78**	19.8	204A	KTH-2001	KTJ-62	KTD-117
D		**KG-59-35-M06**	2	K-Grip Jr., Wire Holes, Crimp & Captive Contact, Gold Plated	**1.66**	42.2	**0.78**	19.8	489	KTH-2042		KTD-231
E-1		**KG-59-32-M06**	1	Weatherproof K-Grip Jr., Wire Holes, Crimp & Capt. Cont., Gold Pltd.	**1.62**	41.1	**0.78**	19.8	5406	KTH-2101	KTJ-160	KTD-208
E-2	**KG-59-23**		3	K-Grip, Captive Contact, Wire Holes	**1.43**	36.3	**0.78**	19.8	204A	KTH-2001	KTJ-62	KTD-117
N-1, -3, P	**KG-59-25**		3	K-Grip, Crimp Contact, Wire Holes	**1.63**	41.4	**0.78**	19.8	230A	KTH-2004	KTJ-24	KTD-81
P		**KG-59-34-M06**	1	Weatherproof K-Grip Jr., Wire Holes, Crimp & Capt. Cont., Gold Pltd.	**1.72**	43.7	**0.78**	19.8	5402	KTH-2105	KTJ-150	KTD-138
P		**825-3-9**	2	K-Grip Jr., Wire Holes, Crimp & Captive Contact, Gold Plated	**1.72**	43.7	**0.78**	19.8	5402	KTH-2105	KTJ-150	KTD-138
.250 SR RG-401/U		**825-2-9**	4	Center Contact, Gold Plated, Wire Holes	**1.58**	40.1	**0.81**	20.6	3-210			

ANGLE PLUGS

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	CONSTRUCTION/ NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	DIMENSIONS C in	DIMENSIONS C mm	DIMENSIONS D in	DIMENSIONS D mm	DIMENSIONS E in	DIMENSIONS E mm	DIMENSIONS F in	DIMENSIONS F mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
D	**KG-59-26**		6	K-Grip, Wire Holes	**1.47**	37.3	**1.28**	32.5	**0.50**	12.7	**1.13**	28.7	**0.89**	22.6	**0.78**	19.8	205A	KTH-2001	KTJ-17	KTD-79
D		**KG-59-31-M06**	5	Wthrprf. K-Grip Jr.. Crimp & Capt. Cont., Gold Pltd., Wire Holes	**1.47**	37.3	**2.11**	53.6			**1.14**	28.9	**1.74**	44.2	**0.79**	20.1	5406	KTH-2101	KTJ-160	KTD-208
E-1		**KG-59-33-M06**	5	Wthrprf. K-Grip Jr., Crimp & Capt. Cont., Gold Pltd., Wire Holes	**1.47**	37.3	**2.11**	53.6			**1.14**	28.9	**1.74**	44.2	**0.79**	20.1	5406	KTH-2101	KTJ-160	KTD-208
E-2	**KG-59-22**		6	K-Grip, Wire Holes	**1.47**	37.3	**1.28**	32.5	**0.50**	12.7	**1.13**	28.7	**0.89**	22.6	**0.78**	19.8	205A	KTH-2001	KTJ-17	KTD-79
L	**826-3-5**		7	Conventional, Cont., Gold Plt.	**1.50**	38.1	**1.64**	41.7	**0.75**	19.1	**1.13**	28.7	**1.25**	31.8	**0.78**	19.8	1030			
N-1		**KG-59-28**	5	Wthrprf. K-Grip Jr., Crimp & Capt. Cont., Wire Holes	**1.47**	37.3	**2.25**	57.2			**1.14**	28.9	**1.86**	47.2	**0.78**	19.8	5402	KTH-2079	KTJ-150	KTD-138
P	**KG-59-300-M07**		5	Wthrprf. K-Grip Jr., Crimp & Capt. Cont., Wire Holes	**1.47**	37.3	**2.25**	57.2			**1.14**	28.9	**1.86**	47.2	**0.78**	19.8	5402	KTH-2105	KTJ-150	KTD-138
.250 SR RG-401/U		**826-4-9**	8	Center Contact Gold Plated, Wire Holes	**1.50**	38.1	**1.75**	44.5			**1.22**	31.0	**1.28**	32.5	**0.94**	23.9	3-210			

BULKHEAD JACKS / PANEL JACKS / PANEL RECEPTACLES ADAPTERS WITHIN SERIES / ACCESSORIES

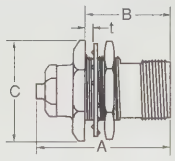


FIGURE 9

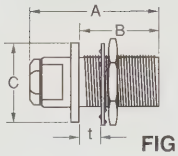


FIGURE 10

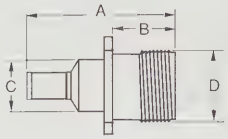


FIGURE 11

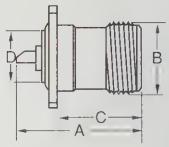


FIGURE 12

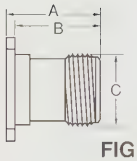


FIGURE 13

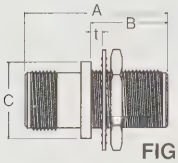


FIGURE 14

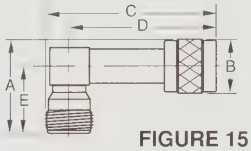


FIGURE 15

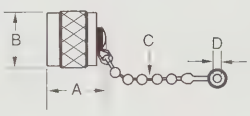


FIGURE 16

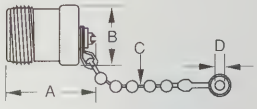
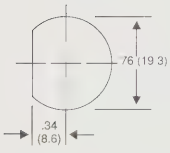
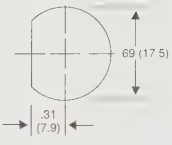


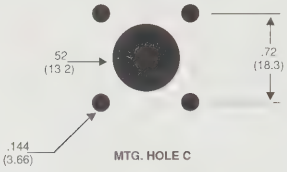
FIGURE 17



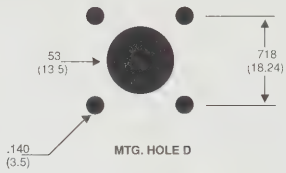
MTG. HOLE A



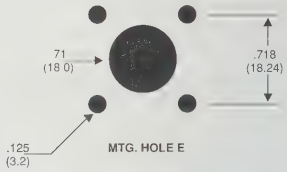
MTG. HOLE B



MTG. HOLE C



MTG. HOLE D



MTG. HOLE E

BULKHEAD JACKS

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	NOTES	DIMENSIONS										CABLING			
					A		B		C		D		t		MTG. HOLE	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	in	mm	in	mm	in	mm					
.141SR RG-402/U	**KG-19-14-M07**		9	Rear Mount	**1.59**	40.4	**1.02**	25.9	**1.00**	25.4			**0.26**	6.6	A	3-77			
.250SR RG-401/U		**822-3-9**	10	Rear Mount	**1.63**	41.4	**1.13**	28.7	**0.97**	24.6			**0.28**	7.1	B	R			

PANEL JACKS

E-1		**821-2-9**	11	Weatherproof K-Grip Jr., Crimp & Captive Contact, Gold Plated	**1.55**	39.4	**0.65**	16.5	**0.50**	12.7	**0.69**	17.5			C	5406	KTH-2102	KTJ-160	KTD-208
P		**KG-19-15-M06**	11	Weatherproof K-Grip Jr., Crimp & Captive Contact	**1.67**	42.4	**0.85**	21.6	**0.50**	12.7	**0.69**	17.5			C	5402	KTH-2105	KTJ-150	KTD-138

PANEL RECEPTACLES

	KG-79-04		12	Hermetic Seal	**1.25**	31.8	**0.69**	17.5	**0.86**	21.8	**0.51**	13.0			D				
	KG-79-05		12		**1.25**	31.8	**0.69**	17.5	**0.83**	21.1	**0.44**	11.2			D				
	KG-79-09-MC7		13	Dummy Receptacle	**0.90**	22.9	**0.69**	17.5	**0.83**	21.1					E				

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		FIG. NO.	ADAPTER ENDS	NOTES / DESCRIPTION	DIMENSIONS													
					A		B		C		D		E		t		MTG. HOLE	
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		
	KG-99-15	14	Jck-Jck		**1.63**	41.4	**0.88**	22.4	**0.88**	22.4					**0.062**	1.6	B	
KG-99-13		15	Plg-Jck	Right Angle	**1.40**	35.6	**0.79**	20.1	**2.52**	64.0	**2.21**	56.1	**1.11**	28.2				

ACCESSORIES

KG-81-01		16		Cap – Male with Bead Chain	**0.83**	21.1	**0.78**	19.8	**2.5**	63.5	**0.144**	3.7						
KG-81-02		17		Cap – Female with Bead Chain	**1.06**	26.9	**0.75**	19.0	**3.5**	88.9	**0.144**	3.7						

R — request from factory.

N series RF connectors are high quality medium size connectors for coaxial cables from .350" to 450" OD, however designs accommodate .078" to .875" cables. The N connector is a 50 ohm constant impedance connector. VSWR is consistently low across its frequency range of 0 to 11 GHz. The mating face uses on air dielectric section. There is a 70 ohm constant impedance version (noted in the listings). The 70 ohm connector will not mate with the 50 ohm connector.

The N connector is a weatherproof unit and with its threaded coupling incurs low noise and withstands shock and vibration.

The N connector is the most popular medium size connector, widely used in test equipment. Items qualified to MIL-C-39012 are included in the listings and also appear in the latest QPL list for MIL-C-39012.

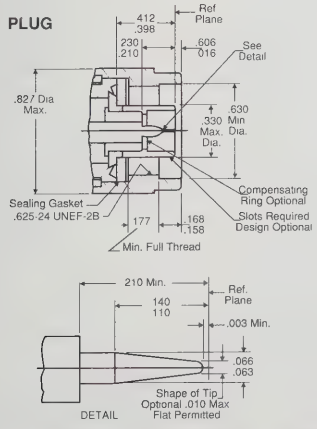
CABLE GROUPS — RG/U, M17		
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59, M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
K	K-1	5, 5A, 5B, 21, 21A, M17/73-RG212, M17/162-00001
	K-2	6, 6A, M17/2-RG6
	K-3	143, 143A, 212, 222, M17/112-RG304, M17/73-RG212, M17/162-00001
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
P		393, M17/127-RG393
R		14, 14A, 217, (224)†, M17/78-RG217, M17/165-00002
T		17A, 218, (219)†, M17/79-RG218, M17/79-RG219
U†		10, 12, 215, M17/74-RG215, M17/6-RG12

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

†Armored.

INTERFACE

Per MIL-C-39012 or MIL-STD-348 as applicable.



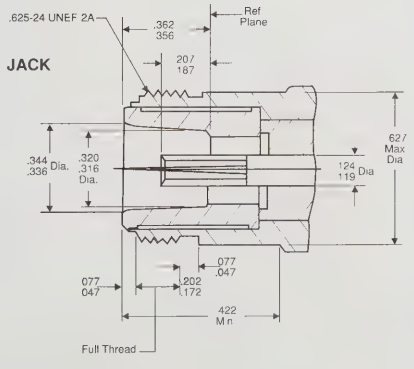
SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 11 GHz
Voltage Rating	1000 volts rms
Dielectric Withstanding Voltage	2500 volts rms
Insulation Resistance	5000 megohms
VSWR (MIL-C-39012 cable connectors)	1.30 max .5-11 GHz
Contact Resistance (MIL-C-39012 cable connectors)	
Center Contacts	1.0 milliohms
Outer Contacts (silver plate)	.2 milliohms
Insertion Loss (MIL-C-39012 cable connectors)	.15 dB max at 9 GHz

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C)
	Rexolite Insulators: –67°F to +185°F (–55°C to + 85°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213, test condition I
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.



MECHANICAL

Mating	.625-24 threaded coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention	
Non-Crimp	75 pounds min.
Crimp	50 to 90 lbs depeding on cable size.
Center Contact Retention	15 lbs. min. axial force except 6 lbs. min. RG400 and RG142. Applicable to captivated center contact connectors only.
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Stainless Steel, QQ-S-763
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM, D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

Contacts	1. Standard finish on all MIL-C-39012 items .0001" (.0025 mm) min. hard gold plate, MIL-G-45204B. 2. All other items .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment, unless otherwise noted.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

Specifications are typical for straight plug configurations designed to MIL-C-39012 and may not apply to all connectors.

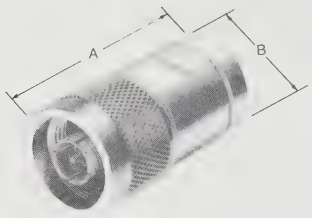


FIGURE 1

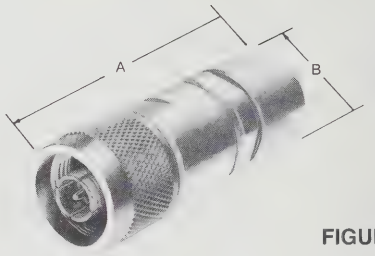


FIGURE 2

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER: SILVER FINISH (or as noted)	KINGS PART NUMBER: TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS: A in	DIMENSIONS: A mm	DIMENSIONS: B in	DIMENSIONS: B mm	CABLING: CBL. TRIM CODE	CABLING	CABLING	CABLING
DE	**KN-59-45**			1	Stainless Steel, Gold Plated, Wire Holes	**1.39**	35.3	**0.78**	19.8	1014			
DE	**UG-536A/U**			1	Wire Holes	**1.41**	35.8	**0.78**	19.8	1014			
DE	**UG-536B/U**	**KN-59-121**		1	Wire Holes	**1.40**	35.6	**0.78**	19.8	1014			
DE	**UG-536C/U**			1		**1.41**	35.8	**0.78**	19.8	1014			
G	**UG-603A/U**	**KN-59-213**		1		**1.38**	35.1	**0.78**	19.8	1015.3			
K	**KN-59-294**		M39012/01-0101	1	Captive Contact, Wire Holes	**1.50**	38.1	**0.79**	20.1	1016			
K	**UG-18C/U**			1		**1.50**	38.1	**0.78**	19.8	1024			
MN	**KN-59-176**	**KN-59-176-M06**	M39012/01-0005	1	Captive Contact, Wire Holes	**1.50**	38.1	**0.79**	20.1	1016			
MN	**UG-21B/U**	**KN-59-207**		1		**1.81**	46.0	**0.78**	19.8	R			
MN	**UG-21C/U**	**KN-59-208**		1		**1.75**	44.5	**0.78**	19.8	R			
MN	**UG-21D/U**	**KN-59-209**		1	Wire Holes	**1.50**	38.1	**0.79**	20.1	1024			
MN	**UG-21E/U**	**KN-59-106**		1	Wire Holes	**1.50**	38.1	**0.79**	20.1	1024			
MN	**UG-21F/U**			1	Wire Holes	**1.50**	38.1	**0.79**	20.1	1024			
MN	**UG-21G/U**			1		**1.50**	38.1	**0.78**	19.8	1024			
MN	**UG-94A/U**			1	70 Ohm Mating, Beryllium Copper Outer Contact	**1.83**	46.5	**0.78**	19.8	R			
MN	**KN-59-195**			1	Capt. Cont., Wire Holes, Passivated Stnls. Steel	**1.50**	38.1	**0.78**	19.8	1016			
MN	**KN-59-199**			1	Passivated Stainless Steel	**1.50**	38.1	**0.78**	19.8	1024			
MN	**UG-1185/U**	**KN-59-192**		1	Captive Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	1016			
MN	**UG-1185A/U**	**KN-59-270**		1	Captive Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	1016			
R	**KN-59-177**		M39012/01-0015	1	Captive Contact, Wire Holes	**1.50**	38.1	**0.79**	20.1	1017			
R	**UG-204C/U**			1		**1.67**	42.4	**0.88**	22.4	1017			
T	**KN-59-295**		M39012/01-0104	1	Captive Contact, Wire Holes	**2.21**	56.1	**1.31**	33.3	1018			
U	**KN-59-296**		M39012/01-0125	2	Captive Contact, Wire Holes	**2.11**	53.6	**0.78**	19.8	1608			
U	**UG-941A/U**	**KN-54-10-M06**		2		**2.06**	52.3	**0.78**	19.8	1601			
U	**UG-941B/U**			2		**2.06**	52.3	**0.78**	19.8	1601			
RG-63/U RG114/U	**UG-1003/U**			1		**1.77**	45.0	**0.78**	19.8	R			

R — request from factory.

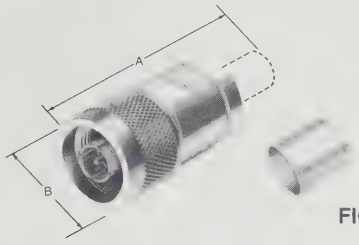


FIGURE 3

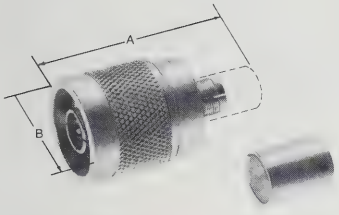


FIGURE 4

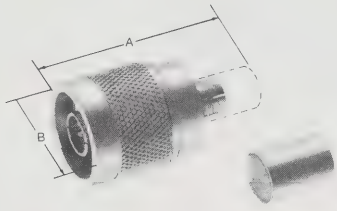


FIGURE 5

K-GRIP CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH (or as noted)	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
D	**KN-59-23**			3		**1.91**	48.5	**0.78**	19.8	R	KTH-2001	KTB-4	KTD-7
D	**KN-59-49**	**KN-59-98**		3		**1.49**	37.9	**0.78**	19.8	207A	KTH-2001	KTJ-18	KTD-117
E-1	**KN-59-113**			3	Wire Holes	**1.49**	37.9	**0.78**	19.8	207A	KTH-2001	KTJ-18	KTD-117
E-2	**KN-59-69**	**KN-59-103**		3	Wire Holes	**1.49**	37.9	**0.78**	19.8	207A	KTH-2001	KTJ-18	KTD-117
N-1	**KN-59-48**	**KN-59-151**		3	Crimp Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	230A	KTH-2004	KTJ-24	KTD-81
N-1	**KN-59-200**			3	Crimp Cont., Wire Holes, Pass. Stnls. Steel	**1.50**	38.1	**0.78**	19.8	227	KTH-2004	KTJ-22	KTD-81
K-GRIP, JR.CONSTRUCTION													
D	**KN-59-86**	**KN-59-118**		4	Wire Holes	**1.45**	36.8	**0.78**	19.8	415	KTH-2001	KTJ-65	KTD-38
D	**KN-59-204**	**KN-59-204-M06**		4	Crimp & Captive Contact, Wire Holes	**1.44**	36.6	**0.78**	19.8	415	KTH-2042	KTJ-65	KTD-38
D	**1205-19-5**		M39012/01-0504	4	Captive Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	489	KTH-2042	KTJ-162	KTD-208
E-1	**KN-59-87**	**KN-59-122**		4	Wire Holes	**1.44**	36.6	**0.78**	19.8	415	KTH-2001	KTJ-65	KTD-38
E-1	**KN-59-242**	**KN-59-242-M06**	M39012/01-0503	4	Captive Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	489	KTH-2042	KTJ-162	KTD-208
E-2	**KN-59-88**	**KN-59-120**		4	Wire Holes	**1.44**	36.6	**0.78**	19.8	415	KTH-2001	KTJ-65	KTD-38
G-1	**KN-59-89**	**KN-59-246**		4		**1.47**	37.3	**0.78**	19.8	415	KTH-2002	KTJ-65	KTD-39
G-1	**KN-59-273**	**KN-59-273-M06**		4	Crimp & Captive Contact, Wire Holes	**1.50**	38.1	**0.78**	19.8	489	KTH-2030	KTJ-162	KTD-123
M	**KN-59-67**	**KN-59-132**		4	Crimp Contact	**1.32**	33.5	**0.78**	19.8	402	KTH-2003	KTJ-74	KTD-28
M-1	**KN-59-202**	**KN-59-201**	M39012/01-0502	4	Captive Contact, Wire Holes	**1.53**	38.9	**0.78**	19.8	480	KTH-2004	KTJ-137	KTD-138
N-1	**KN-59-68**	**KN-59-104**		4	Crimp Contact, Wire Holes	**1.32**	33.5	**0.78**	19.8	402	KTH-2004	KTJ-74	KTD-28
N-1,-3,P	**KN-59-239**	**KN-59-240**	M39012/01-0501	4	Captive Contact, Wire Holes	**1.53**	38.9	**0.78**	19.8	480	KTH-2004	KTJ-137	KTD-138
BELDEN 9880		**KN-59-357-M06**		4	Crimp & Captive Contact, Wire Holes	**1.53**	38.9	**0.79**	20.1	480	KTH-2004	KTJ-137	KTD-232
WEATHERPROOF K-GRIP, JR.CONSTRUCTION													
BELDEN 8214		**KN-59-197**		5	Wire Holes	**1.32**	33.5	**0.78**	19.8	402	KTH-2063	KTJ-74	KTD-28

R — request from factory.

ANGLE PLUGS

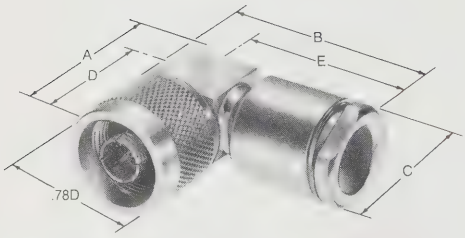


FIGURE 6

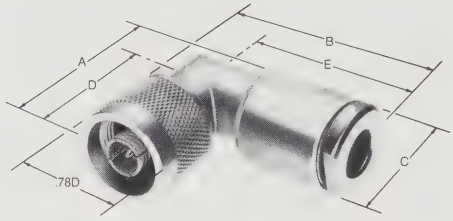


FIGURE 7

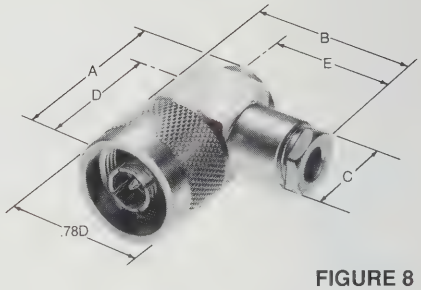


FIGURE 8

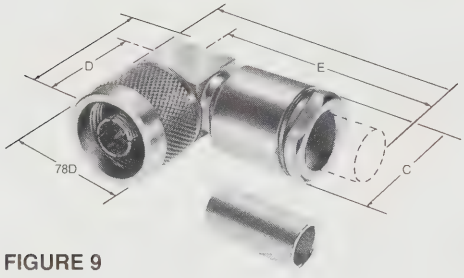


FIGURE 9

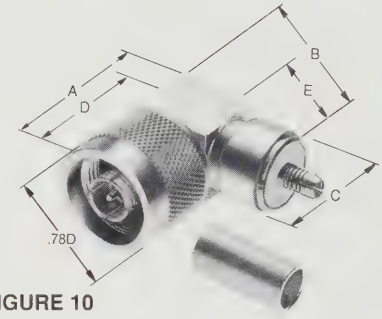


FIGURE 10

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS										CABLING			
	SILVER FINISH	TR-5 FINISH				A		B		C		D		E		CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
						in	mm	in	mm	in	mm	in	mm	in	mm				
DE	**KN-59-06**	**KN-59-271**		8	Wire Holes	**1.37**	34.8	**1.21**	30.7	**0.50**	12.7	**1.01**	25.7	**0.82**	20.8	1025			
M-1, N-1	**KN-59-179**			6	Wire Holes	**1.38**	35.1	**1.72**	43.7	**0.75**	19.1	**1.00**	25.4	**1.33**	33.8	1022			
M-1, N-1	**KN-59-298**		M39012/05-0101	6	Capt. Cont., Wire Holes	**1.38**	35.1	**1.72**	43.7	**0.75**	19.1	**1.00**	25.4	**1.33**	33.8	1022			
M-1, N-1	**UG-594B/U**	**KN-59-257**		6	Wire Holes	**1.38**	35.1	**1.72**	43.7	**0.75**	19.1	**1.01**	25.7	**1.33**	33.8	1022			
M-1, N-1, N-3	**UG-594A/U**	**KN-59-212**		7		**1.44**	36.6	**2.03**	51.6	**0.75**	19.1	**1.10**	27.9	**1.62**	41.5	R			

K-GRIP CONSTRUCTION

N-1	**KN-59-53**			9	Crimp Contact	**1.38**	35.1	**1.66**	42.2	**0.75**	19.1	**1.01**	25.7	**1.27**	32.3	211A	KTH-2004	KTJ-33	KTD-81

K-GRIP, JR. CONSTRUCTION

D	**1206-5-5**		M39012/05-0504	10	Capt. Cont., Wire Holes	**1.34**	34.0	**2.14**	54.4	**0.66**	16.8	**1.01**	25.7	**1.71**	43.4	489	KTH-2042	KTJ-162	KTD-208
E-1	**KN-59-245**		M39012/05-0503	10	Capt. Cont., Wire Holes	**1.34**	34.0	**2.10**	53.3	**0.66**	16.8	**1.01**	25.7	**1.71**	43.4	489	KTH-2042	KTJ-162	KTD-208
M-1	**KN-59-244**		M39012/05-0502	10	Capt. Cont., Wire Holes	**1.34**	34.0	**2.14**	54.4	**0.66**	16.8	**1.01**	25.7	**1.71**	43.4	480	KTH-2004	KTJ-137	KTD-138
N-1, -3, P	**KN-59-243**	**KN-59-241**	M39012/05-0501	10	Capt. Cont., Wire Holes	**1.34**	34.0	**2.14**	54.4	**0.66**	16.8	**1.01**	25.7	**1.75**	44.5	480	KTH-2004	KTJ-137	KTD-138

R — request from factory.

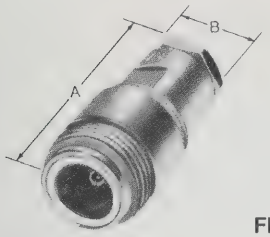


FIGURE 11

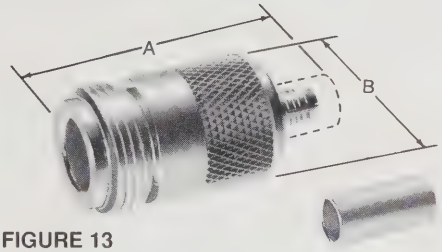


FIGURE 13

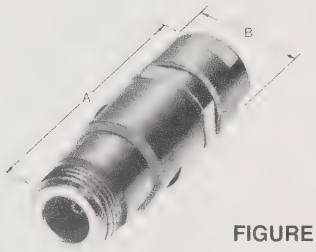


FIGURE 12

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
DE	**KN-39-01**			11	Center Contact Gold Plated	**1.31**	33.3	**0.63**	16.0	1015			
G	**UG-602A/U**	**KN-39-84**		11		**1.45**	36.8	**0.63**	16.0	1012.3			
K	**UG-20D/U**			11		**1.56**	39.6	**0.75**	19.1	1024			
K-2	**UG-92A/U**			11	70 Ohm Mating	**1.91**	48.5	**0.69**	17.5	R			
K-2, -3	**KN-39-101**		M39012/02-0101	11	Captive Contact, Gold Plated	**1.58**	40.1	**0.75**	19.1	1016			
M	**UG-940A/U**			12		**2.25**	57.2	**0.75**	19.1	1601			
M	**UG-940B/U**			12		**2.25**	57.2	**0.75**	19.1	1601			
M	**UG-940C/U**			12		**2.25**	57.2	**0.75**	19.1	1601			
M	**UG983A/U**			12	Hermetic Seal	**3.70**	94.0	**1.00**	25.4	1602			
MN	**KN-39-68**		M39012/02-0003	11	Captive Contact, Gold Plated	**1.58**	40.1	**0.75**	19.1	1016			
MN	**UG-23B/U**	**KN-39-77**		11		**1.91**	48.5	**0.69**	17.5	R			
MN	**UG-23D/U**	**KN-39-78**		11		**1.58**	40.1	**0.75**	19.1	1024			
MN	**UG-23E/U**	**KN-39-54**		11		**1.58**	40.1	**0.75**	19.1	1024			
MN	**UG-23F/U**			11		**1.58**	40.1	**0.75**	19.1	1024			
MN	**UG-1186/U**	**KN-39-76**		11	Captive Contact, Gold Plated	**1.58**	40.1	**0.75**	19.1	1016			
MN	**UG-1186A/U**	**KN-39-99**		11	Captive Contact, Gold Plated	**1.58**	40.1	**0.75**	19.1	1016			
N-3,U	**KN-39-102**		M39012/02-0131	12	Captive Contact, Gold Plated	**2.31**	58.7	**0.75**	19.1	1608			

K-GRIP, JR. CONSTRUCTION

D	**KN-39-38**	**KN-39-46**		13	Center Contact Gold Plated	**1.48**	37.6	**0.63**	16.0	415	KTH-2001	KTJ-65	KTD-38
E-1	**KN-39-86**		M39012/02-0503	13	Captive Contact, Gold Plated	**1.58**	40.1	**0.63**	16.0	489	KTH-2004	KTJ-162	KTD-208
M	**KN-39-30**	**KN-39-52**		13		**1.41**	35.8	**0.63**	16.0	433	KTH-2003	KTJ-79	KTD-28
M-1	**KN-39-85**	**KN-39-92**	M39012/02-0502	13	Captive Contact, Gold Plated	**1.61**	40.9	**0.63**	16.0	480	KTH-2004	KTJ-137	KTD-138
N-1, -3	**KN-39-83**		M39012/02-0501	13	Captive Contact, Gold Plated	**1.61**	40.9	**0.63**	16.0	480	KTH-2004	KTJ-137	KTD-138

R — request from factory.

BULKHEAD JACKS

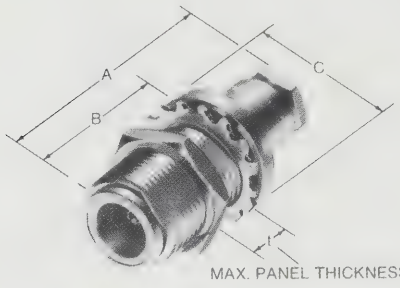


FIGURE 14

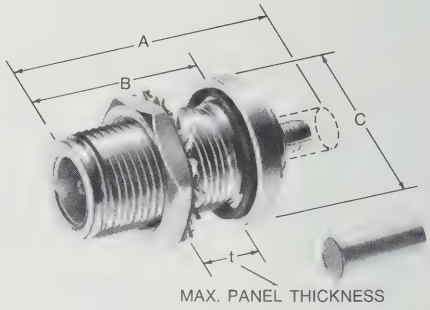
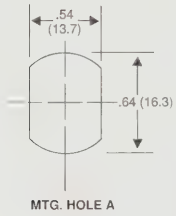


FIGURE 15



CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
DE	**UG-556B/U**	**KN-19-86**		14	Rear Mounting	**1.68**	42.7	**0.92**	23.4	**0.81**	20.6	**0.32**	8.1	A	1019			
DE	**UG-556C/U**			14	Rear Mounting, Center Cont., Gold Plated	**1.69**	42.7	**0.92**	23.4	**0.81**	20.6	**0.32**	8.1	A	1019			
E	**KN-19-42**			14	Rear Mtg., O-Ring Seal	**1.43**	36.3	**0.92**	23.4	**0.88**	22.4	**0.34**	8.6	A	1021			
K-2,-3	**KN-19-180**		M39012/03-0101	14	Rear Mtg., Captive Cont., Gold Plated	**1.77**	45.0	**0.92**	23.4	**0.88**	22.4	**0.34**	8.6	A	1016			
MN	**KN-19-114**	**KN-19-114-M06**	M39012/03-0102	14	Rear Mtg., Captive Cont., Gold Plated	**1.77**	45.0	**0.92**	23.4	**0.88**	22.4	**0.34**	8.6	A	1016			
MN	**UG-160C/U**			14	Rear Mounting	**1.78**	45.2	**0.92**	23.4	**0.88**	22.4	**0.34**	8.6	A	1024			
MN	**UG-160D/U**			14	Rear Mounting	**1.78**	45.2	**0.92**	23.4	**0.88**	22.4	**0.34**	8.6	A	1024			

K-GRIP, JR. CONSTRUCTION

D	**KN-19-53**	**KN-19-119**		15	Rear Mounting	**1.67**	42.4	**0.92**	23.4	**0.81**	20.6	**0.322**	8.4	A	413	KTH-2001	KTJ-63	KTD-41
E-1	**KN-19-151**	**KN-19-151-M06**	M39012/03-0503	15	Rear Mtg., Captive Cont., Gold Plated	**1.78**	45.2	**0.92**	23.4	**0.88**	22.4	**0.324**	8.2	A	489	KTH-2042	KTJ-162	KTD-208
M-1	**KN-19-150**		M39012/03-0502	15	Rear Mtg., Captive Cont., Gold Plated	**1.82**	46.2	**0.92**	23.4	**0.88**	22.4	**0.324**	8.2	A	480	KTH-2004	KTJ-137	KTD-138
NP	**KN-19-149**	**KN-19-145**	M39012/03-0501	15	Rear Mtg., Captive Cont., Gold Plated	**1.82**	46.2	**0.92**	23.4	**0.88**	22.4	**0.324**	8.2	A	480	KTH-2004	KTJ-137	KTD-138

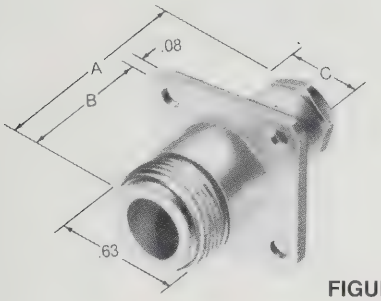


FIGURE16

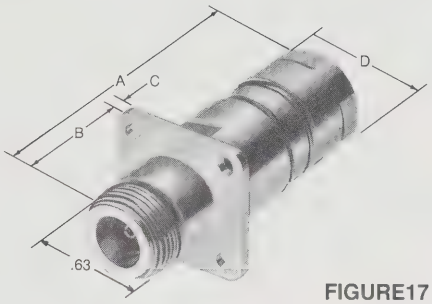


FIGURE17

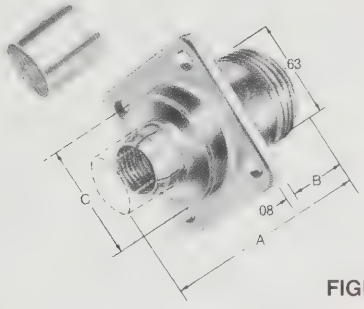
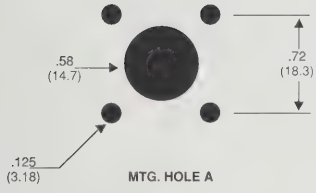
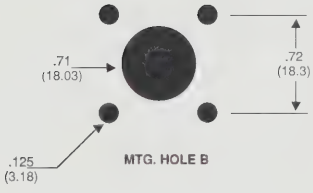
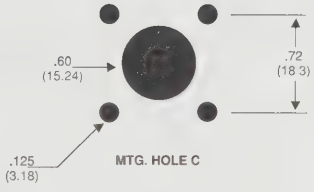


FIGURE18







CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
DE	**UG-1095A/U**			16		**1.42**	36.1	**0.66**	16.8	**0.08**	2.0	**0.54**	13.7	A	1015			
DE	**UG-1095B/U**	**KN-19-121**		16		**1.42**	36.1	**0.66**	16.8	**0.08**	2.0	**0.54**	13.7	A	1015			
K-2,-3	**KN-19-178**		M39012/02-0104	16	Captive Cont., Gold Plated	**1.58**	40.1	**0.66**	16.8	**0.08**	2.0	**0.75**	19.1	B	1016			
MN	**KN-19-110**	**KN-19-110-M06**	M39012/02-0006	16	Captive Cont., Gold Plated	**1.58**	40.1	**0.66**	16.8	**0.08**	2.0	**0.75**	19.1	A	1016			
MN	**UG-22D/U**	**KN-19-22**		16		**1.59**	40.4	**0.66**	16.8	**0.08**	2.0	**0.75**	19.1	B	1024			
MN	**UG-22F/U**			16		**1.59**	40.4	**0.66**	16.8	**0.08**	2.0	**0.75**	19.1	B	1024			
U	**KN-19-111**		M39012/02-0032	17		**2.31**	58.7	**0.66**	16.8	**0.08**	2.0	**0.75**	19.1	B	R			

K-GRIP, JR. CONSTRUCTION

E-1	**KN-19-148**		M39012/02-0513	18	Crimp & Captive Cont.	**1.58**	40.1	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0	C	489	KTH-2042	KTJ-162	KTD-208
M-1	**KN-19-147**		M39012/02-0512	18	Crimp & Captive Cont.	**1.61**	40.9	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0	B	480	KTH-2004	KTJ-137	KTD-138
N-1, K-3,P	**KN-19-146**	**KN-19-144**	M39012/02-0511	18	Crimp & Captive Cont.	**1.61**	40.9	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0	B	480	KTH-2004	KTJ-137	KTD-138

R — Request from factory.

BULKHEAD RECEPTACLES
PANEL RECEPTACLES

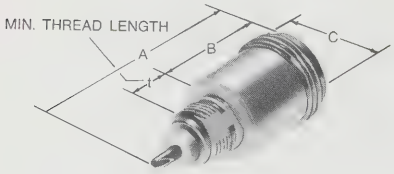


FIGURE 19

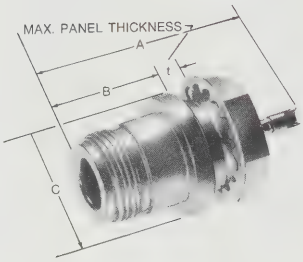


FIGURE 20

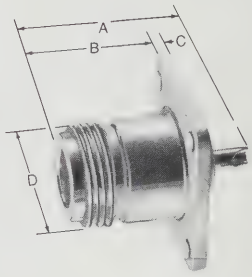


FIGURE 21

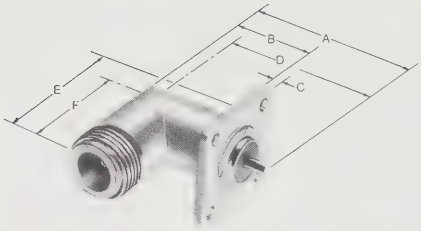


FIGURE 22

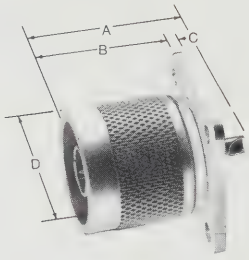
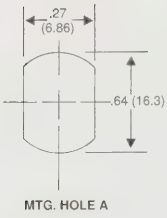
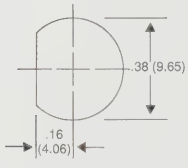


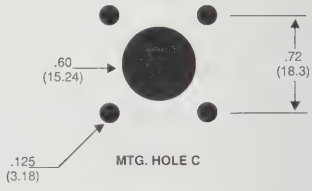
FIGURE 23



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS												MTG. HOLE
SILVER FINISH (or as noted)	TR-5 FINISH				A		B		C		D		E		F		t	
					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KN-79-56	**KN-79-93**		19	Mtg. Hdwr. Not Supplied	**1.28**	32.5	**0.70**	17.8	**0.63**	16.0							**0.262**	6.7	B
KN-79-69		M39012/04-0001	20	Hermetic Seal, Front Mount	**1.61**	40.9	**0.71**	18.0	**0.81**	20.6							**0.263**	6.7	A
UG-680A/U	**KN-79-51**		20	Hermetic Seal, Front Mount	**1.61**	40.9	**0.71**	18.0	**0.81**	20.6							**0.194**	4.9	A

PANEL RECEPTACLES

KN-79-45-M07	**KN-79-45-M06**		23	Male	**1.11**	28.2	**0.74**	18.8	**0.08**	2.0	**0.78**	19.8							C
KN-79-48			21	Body – Stainless Steel Pass., Center Contact Gold Plated	**1.12**	28.4	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0							C
KN-79-70	**KN-79-85**	M39012/04-0002	21		**1.13**	28.7	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0							C
KN-79-122-M07			21	Hermetic Seal	**1.06**	26.9	**0.63**	16.0	**0.08**	2.0	**0.63**	16.0							C
UG-58/U			21	Rexolite Insulator	**1.11**	28.2	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0							C
UG-58A/U	**KN-79-40**		21		**1.12**	28.4	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0							C
UG-58B/U			21	Center Contact Gold Plated	**1.12**	28.4	**0.66**	16.8	**0.08**	2.0	**0.63**	16.0							C
UG-997A/U			22	Right Angle	**1.46**	37.1	**1.03**	26.2	**0.08**	2.0	**1.15**	29.2	**1.41**	35.8	**0.91**	23.1			C

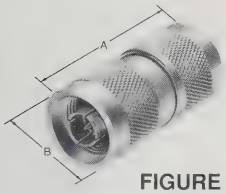


FIGURE 24

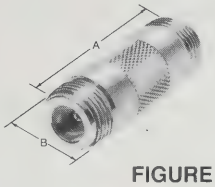


FIGURE 25

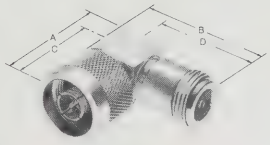


FIGURE 26

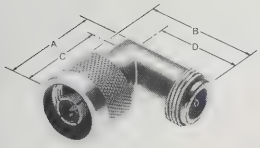


FIGURE 27

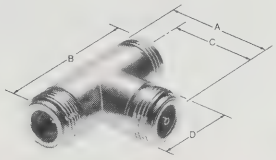


FIGURE 28

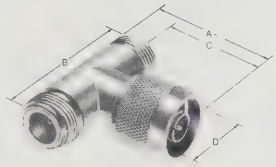


FIGURE 29

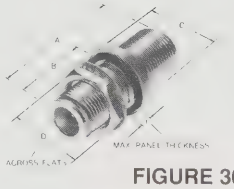


FIGURE 30

FIGURE 31

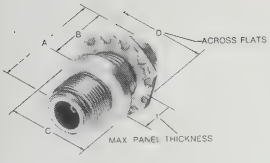


FIGURE 32

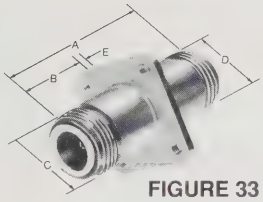
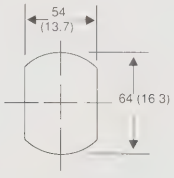
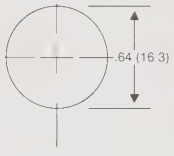


FIGURE 33

MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS												MTG. HOLE
						A		B		C		D		E		F		t		
SILVER FINISH (or as noted)	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KN-99-14			33	Jck-Jck		**1.75**	44.5	**0.81**	20.6	**0.63**	16.0	**0.63**	16.0	**0.08**	2.0	**0.125**	3.2			A
KN-99-34	**KN-99-34-M06**		30	Jck-Jck		**1.75**	44.5	**0.86**	21.8	**0.88**	22.4	**0.75**	19.1					**0.275**	7.0	B
KN-99-27			32	Jck-Jck	Hermetic Seal, Passivated Stnls. Stl.	**1.54**	39.1	**0.86**	21.8	**0.88**	22.4	**0.79**	19.1					**0.272**	6.9	B
KN-99-59			25	Jck-Jck	Passivated Stnls. Stl.	**1.75**	44.5	**0.63**	16.0											
KN-99-60			28	Jck-Jck-Jck	Passivated Stnls. Stl.	**1.22**	31.0	**1.75**	44.5	**0.91**	23.1	**0.63**	16.0							
UG-27B/U	**KN-99-69**		27	Plg-Jck	Right Angle	**1.41**	35.8	**1.30**	33.0	**1.10**	27.9	**0.91**	23.1							
UG-27C/U	**KN-99-47**		26	Plg-Jck	Right Angle	**1.32**	33.5	**1.37**	34.8	**1.01**	25.7	**0.98**	24.9							
UG-27D/U	**KN-99-70**		26	Plg-Jck	Cntr. Cont. Gold Pltd.	**1.32**	33.5	**1.37**	34.8	**1.01**	25.7	**0.98**	24.9							
UG-28A/U	**KN-99-71**		28	Jck-Jck-Jck		**1.22**	31.0	**1.75**	44.5	**0.91**	23.1	**0.63**	16.0							
UG-29B/U	**KN-99-50**		25	Jck-Jck		**1.75**	44.5	**0.63**	16.0											
UG-30C/U	**KN-99-49**		32	Jck-Jck	Hermetic Seal	**1.75**	44.5	**0.97**	24.6	**0.81**	20.6	**0.93**	23.6					**0.327**	8.3	C
UG-30D/U	**KN-99-58**		32	Jck-Jck	Hermetic Seal	**1.54**	39.1	**0.86**	21.8	**0.88**	22.4	**0.75**	19.1					**0.272**	6.9	B
UG-30E/U	**KN-99-74**		32	Jck-Jck	Hermetic Seal	**1.54**	39.1	**0.86**	21.8	**0.88**	22.4	**0.93**	23.6					**0.262**	6.7	B
UG-57B/U	**KN-99-44**		24	Plg-Plg		**1.60**	40.6	**0.78**	19.8											
UG-107B/U	**KN-99-48**		29	Jck-Plg-Jck		**1.48**	37.6	**1.75**	44.5	**1.17**	29.7	**0.78**	19.8							
UG-202A/U			31	Jck-Jck	Right Angle	**1.48**	37.5	**2.03**	51.5	**1.05**	26.6	**1.71**	43.6	**0.918**	23.3	**0.88**	22.3			B
1209-9		M55339/05-00057	24	Plg-Plg	Wire Holes	**1.60**	40.6	**0.78**	19.8											
1209-10		M55339/03-00027	26	Plg-Jck	Right Angle	**1.18**	30.0	**1.38**	35.1	**0.90**	22.9	**0.98**	24.9							
1209-12		M55339/04-00030	30	Jck-Jck	Hermetic Seal	**1.54**	39.1	**0.86**	21.8	**0.88**	22.4	**0.75**	19.1					**0.285**	7.2	B
1209-13		M55339/07-00029	25	Jck-Jck		**1.75**	44.5	**0.63**	16.0											
1209-19		M55339/04-00001	32	Jck-Jck	O-Ring Seal	**1.54**	39.1	**0.86**	21.8	**0.88**	22.4	**0.75**	19.1					**0.285**	7.2	B

TERMINATIONS

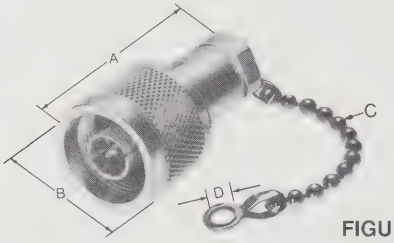


FIGURE 34

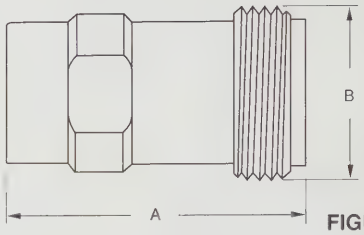


FIGURE 35

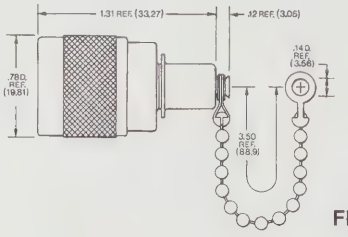


FIGURE 36

TERMINATIONS

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	NOTES	DIMENSIONS							
						A		B		C		D	
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KN-89-18			34	Male with Bead Chain	50 ohm, 5%, 1/2 watt, wire Holes	**1.59**	40.4	**0.78**	19.8	**2.5**	63.5	**0.14**	3.6
	1383-1-M06		35	Female without Chain	50 ohm, 5%, 2 watt	**1.60**	26.9	**0.78**	19.8				
ECONOMY TYPE													
	1385-7-31		36	Male without Chain	50 ohm, 1%, 1/2 watt								
	1385-7-32		36	Male without Chain	50 ohm, 0.1%, 1/2 watt								
	1385-7-33		36	Male without Chain	51 ohm, 5%, 1/2 watt								
	1385-7-34		36	Male without Chain	75 ohm, 5%, 1/2 watt								
	1385-7-35		36	Male without Chain	75 ohm, 1%, 1/2 watt								
	1385-7-36		36	Male without Chain	75 ohm, 0.1%, 1/2 watt								
	1385-7-37		36	Male without Chain	91 ohm, 1%, 1/2 watt								
	1385-7-38		36	Male without Chain	91 ohm, 5%, 1/2 watt								
	1385-7-39		36	Male without Chain	93 ohm, 1%, 1/2 watt								
	1385-7-40		36	Male without Chain	93 ohm, 0.1%, 1/2 watt								
	1385-8-31		36	Male with Bead Chain	50 ohm, 1%, 1/2 watt								
	1385-8-32		36	Male with Bead Chain	50 ohm, 0.1%, 1/2 watt								
	1385-8-33		36	Male with Bead Chain	51 ohm, 5%, 1/2 watt								
	1385-8-34		36	Male with Bead Chain	75 ohm, 5%, 1/2 watt								
	1385-8-35		36	Male with Bead Chain	75 ohm, 1%, 1/2 watt6								
	1385-8-36		36	Male with Bead Chain	75 ohm, 0.1%, 1/2 watt								
	1385-8-37		36	Male with Bead Chain	91 ohm, 1%, 1/2 watt								
	1385-8-38		36	Male with Bead Chain	91 ohm, 5%, 1/2 watt								
	1385-8-39		36	Male with Bead Chain	93 ohm, 1%, 1/2 watt								
	1385-8-40		36	Male with Bead Chain	93 ohm, 0.1%, 1/2 watt								

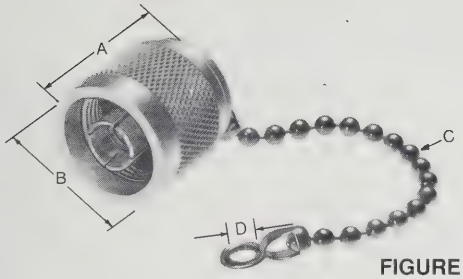


FIGURE 37

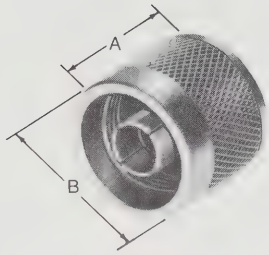


FIGURE 38

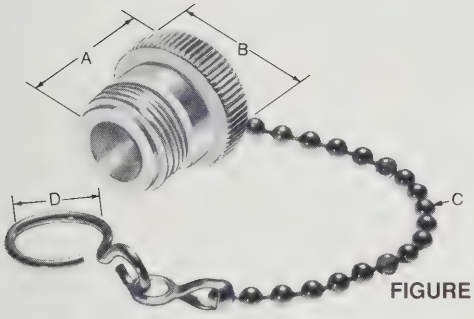


FIGURE 39

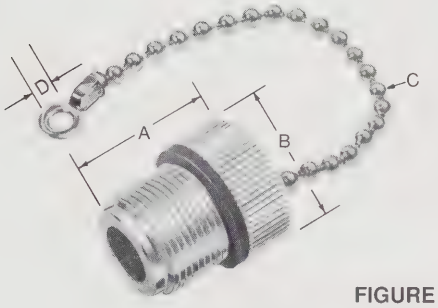


FIGURE 40

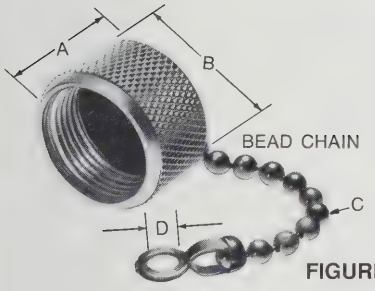


FIGURE 41

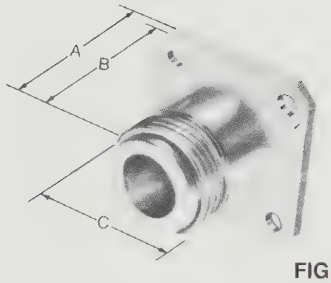
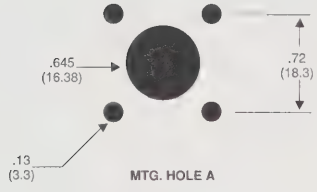


FIGURE 42



ACCESSORIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	NOTES	DIMENSIONS							
						A		B		C		D	
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KN-79-10			42	Dummy Receptacle	Mounting Hole A	**0.74**	18.8	**0.66**	16.8	**0.63**	16.0		
KN-89-05			40	Cap – Female with Bead Chain		**0.95**	24.1	**0.75**	19.1	**4.38**	111.3	**0.14**	3.6
KN-89-12			39	Cap – Female with Bead Chain		**0.84**	21.3	**0.78**	19.8	**4.50**	114.3	**0.48**	12.2
KN-89-14			41	Cap – Male with Bead Chain		**0.55**	14.0	**0.75**	19.1	**5.00**	127.0	**0.14**	3.6
KN-89-24			38	Cap – Male		**0.69**	17.5	**0.78**	19.8				
KN-89-26			37	Shorting Cap – Male with Bead Chain	Wire Holes	**0.81**	20.6	**0.78**	19.8	**3.5**	88.9	**0.14**	3.6
KN-89-30		M39012/25-0011	41	Cap – Male with Bead Chain		**0.55**	14.0	**0.75**	19.1	**2.5**	63.5	**0.14**	3.6
KN-89-31	**KN-89-53**	M39012/25-0012	41	Cap – Male with Safety Chain		**0.55**	14.0	**0.75**	19.1	**3.75**	95.3	**0.64**	1641
MX-913/U	**KN-89-28**		41	Cap – Male with Bead Chain		**0.55**	14.0	**0.75**	19.1	**2.25**	57.2	**0.14**	3.6

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

HN series RF connectors are a medium size high voltage threaded coupling connector slightly larger than the N connector. The HN connector accommodates cables from .195" to .945" OD. It is a 50 ohm constant impedance connector with a frequency range of 0 to 4 GHz and is weatherproof. It utilizes overlapping dielectric interfaces and long dielectric creep paths in its design for an operating voltage up to 1500 volts rms. HN connectors are covered under MIL-C-3643.

CABLE GROUPS — RG/U, M17		
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*, 55B*, 142B, M17/84-RG223, M17/60-RG142
	G-2	71, 71A, 71B, M17/90-RG71
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
P		393, M17/127-RG393
R		14, 14A, 217, (224)†, M17/78-RG217, M17/165-00002
T		17A, 218, (219)†, M17/79-RG218, M17/79-RG219

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

†Armored.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 4 GHz
Voltage Rating	1500 volts rms
Dielectric Withstanding Voltage	5000 volts rms
Insulation Resistance	5000 megohms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to + 85°C)
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	3/4-20 Threaded coupling

MATERIAL

Except as noted in connector listings

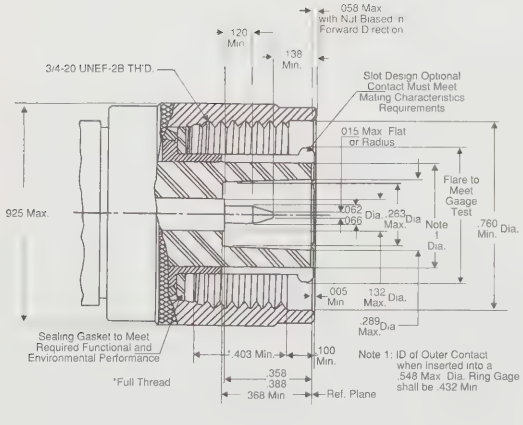
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Brass QQ-B-626
Insulators	1. PTFE, ASTM D1457 2. Rexolite 1422, MIL-P-77 Type E-2.
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

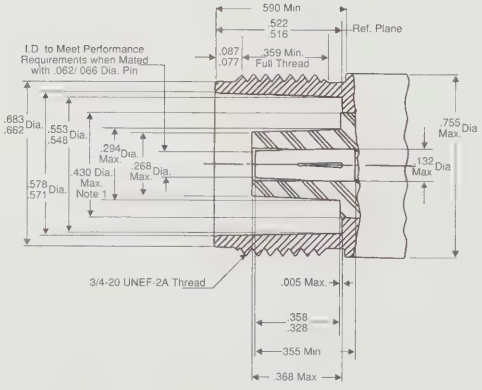
Contacts	1. Standard finish .0002" (.005 mm) min. silver plate, QQ-S-365A plus TR-4® electrolytic chromate treatment. 2. .0001" (.0025 mm) min. hard gold plate MIL-G-45204B.
Bodies & Fittings	1. Standard finish .0002" (.005mm) min. silver plate electro-deposited per QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

PLUG


.058 Max with Nut Biased in Forward Direction
.120 Min.
.138 Min.
3/4-20 UNEF-2B TH'D.
Slot Design Optional Contact Must Meet Mating Characteristics Requirements
.015 Max. Flat or Radius
Flare to Meet Gaage Test
.925 Max.
.062 Dia. .066
.263 Dia. Max.
Note 1
.760 Dia. Min.
.005 Min
.132 Dia. Max.
.289 Dia. Max.
Sealing Gasket to Meet Required Functional and Environmental Performance
.403 Min.
.100 Min.
Note 1: ID of Outer Contact when inserted into a .548 Max. Dia. Ring Gage shall be .432 Min
*Full Thread
.358 .388
.368 Min
Ref. Plane

JACK



Specifications are typical for straight plug configurations and may not apply to all connectors.

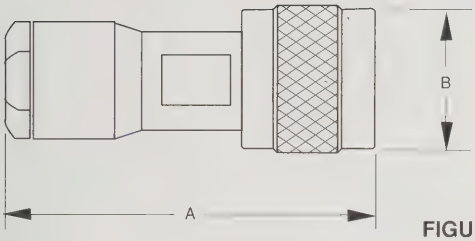


FIGURE 1

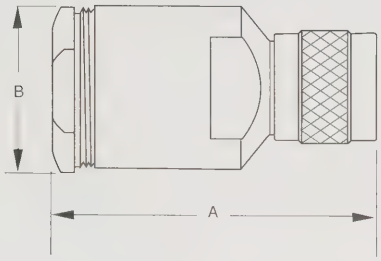


FIGURE 2

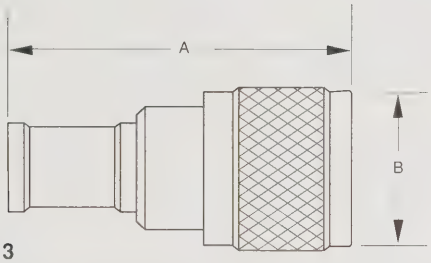


FIGURE 3

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
DE	**KH-59-72**		1	Wire Holes	**1.63**	41.4	**0.88**	22.4	1004			
MN	**UG-59A/U**	**KH-59-73**	1	Rexolite Insulation	**2.47**	62.7	**0.85**	21.6	R			
MN	**UG-59B/U**	**KH-59-47**	1	Teflon Insulation, Wire Holes	**2.41**	61.2	**0.88**	22.4	103			
MN	**UG-59C/U**		1	Teflon Insulation	**2.16**	54.9	**0.85**	21.6	R			
MN	**UG-59D/U**	**KH-56-01-M06**	1	Teflon Insulation, Wire Holes	**2.22**	56.4	**0.88**	22.4	1031			
MN	**UG-59E/U**	**KH-59-44**	1	Teflon Insulation	**2.22**	56.4	**0.88**	22.4	1031			
MN	**UG-925A/U**		1	Teflon Insulation, Includes Armor Clamp	**2.97**	75.4	**0.88**	22.4	R			
MN	**UG-1213/U**	**KH-59-74**	1	Captive Contact, Teflon Insulation	**2.81**	71.4	**0.88**	22.4	3-399			
P	**KH-59-80**		1	Wire Holes	**2.22**	56.4	**0.87**	22.1	1031			
R	**UG-494/U**		2	Rexolite Insulation	**1.73**	43.9	**1.00**	25.4	R			
R	**UG-494A/U**	**KH-54-02-M06**	2	Teflon Insulation	**2.38**	60.5	**0.88**	22.4	R			
R	**UG-1021/U**		2	Teflon Insulation	**3.20**	81.3	**0.88**	22.4	R			
S	**UG-926A/U**		2	Teflon Insulation	**3.16**	80.3	**1.31**	33.3	R			
T	**UG-495/U**		2	Rexolite Insulation	**2.56**	65.0	**1.31**	33.3	R			
T	**UG-495B/U**		2	Teflon Insulation	**2.63**	66.8	**2.44**	62.0	R			
T	**UG-1041A/U**		2	Teflon Insulation	**3.52**	89.4	**1.31**	33.8	1022-1			
T	**UG-1148/U**		2	Teflon Insulation	**2.56**	65.0	**1.31**	33.8	R			

WEATHERPROOF K-GRIP, JR. CONSTRUCTION

M-1		**KH-59-63**	3	Crimp Cont., Wire Holes	**1.93**	49.0	**0.88**	22.4	5403	KTH-2078	KTJ-154	KTD-137
N-1		**KH-59-65**	3	Crimp & Gold Plated Cont.,Wire Holes	**1.93**	49.0	**0.88**	22.4	5403	KTH-2079	KTJ-154	KTD-137

R — request from factory. **For Angle Plugs — see page 65.**

JACKS
PANEL JACKS

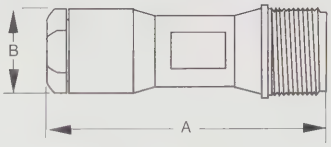


FIGURE 4

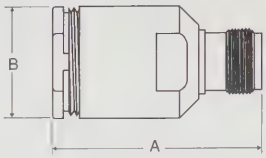


FIGURE 5

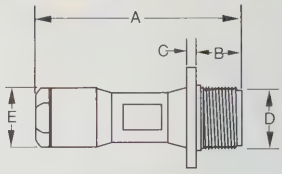


FIGURE 6

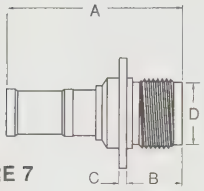


FIGURE 7

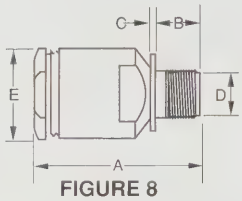


FIGURE 8

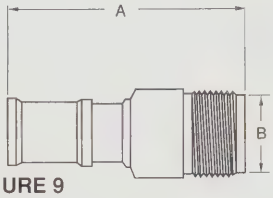
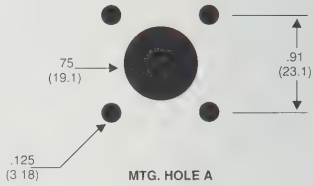


FIGURE 9



JACKS

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	CONSTRUCTION / NOTES	DIMENSIONS				CABLING			
					A		B					
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
M-1		**KH-39-21**	9	Weatherproof K-Grip, Jr., Teflon Insulation, Captive Contact	**1.91**	48.5	**0.75**	19.1	5403	KTH-1078	KTJ-154	KTD-137
MN	**UG-60A/U**		4	Conventional, Rexolite Insulation	**2.61**	66.3	**0.69**	17.5	R			
MN	**UG-60B/U**		4	Conventional, Teflon Insulation	**2.55**	64.8	**0.69**	17.5	R			
MN	**UG-60C/U**		4	Conventional, Teflon Insulation	**2.28**	57.9	**0.75**	19.1	R			
MN	**UG-60D/U**		4	Conventional, Teflon Insulation	**1.99**	50.5	**0.75**	19.1	R			
MN	**UG-60E/U**		4	Conventional, Teflon Insulation	**1.99**	50.5	**0.75**	19.1	103			
MN	**UG-927B/U**		4	Conventional, Teflon Insulation, Includes Armor Clamp, Captive Cont.	**2.66**	67.6	**0.75**	19.1	R			
MN	**UG-1214/U**		4	Conventional, Teflon Insulation, Captive Contact	**2.94**	75.4	**0.75**	19.1	R			
N-1		**KH-39-22**	9	Weatherproof K-Grip, Jr., Captive Contact	**1.91**	48.5	**0.75**	19.1	5403	KTH-1079	KTJ-154	KTD-137
T	**UG-333/U**		5	Conventional, Rexolite Insulation	**2.44**	62.0	**1.31**	33.3	R			
T	**UG-333A/U**		5	Conventional, Rexolite Insulation	**2.53**	64.3	**1.31**	33.3	R			
T	**UG-333B/U**		5	Conventional, Teflon Insulation	**2.50**	63.5	**1.31**	33.3	R			

PANEL JACKS

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	CONSTRUCTION / NOTES	DIMENSIONS										CABLING			
					A		B		C		D		E					
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	in	mm	in	mm	in	mm	MTG. HOLE	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
M-1		**KH-19-18**	7	Wthrprf. K-Grip Jr.,Teflon Ins., Capt. Cont.	**1.91**	48.5	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	5403	KTH-1078	KTJ-154	KTD-137
MN	**UG-61A/U**		6	Conventional, Rexolite Ins.	**2.61**	66.3	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
MN	**UG-61B/U**		6	Conventional, Teflon Insulation	**2.55**	64.8	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
MN	**UG-61C/U**		6	Conventional, Teflon Insulation	**2.28**	57.9	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
MN	**UG-61D/U**		6	Conventional, Teflon Insulation	**1.99**	50.5	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
MN	**UG-61E/U**	**KH-13-01-M06**	6	Conventional, Teflon Insulation	**1.99**	50.5	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
MN	**UG-1215/U**		6	Conven., Teflon Ins., Capt. Cont.	**2.94**	74.7	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1			A	R			
T	**UG-334/U**		8	Conventional, Rexolite Ins.	**2.44**	62.0	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1	**1.31**	33.3	A	R			
T	**UG-334A/U**		8	Conventional, Rexolite Ins.	**2.53**	64.3	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1	**1.31**	33.3	A	R			
T	**UG-334B/U**		8	Conventional, Teflon Insulation	**2.50**	63.5	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1	**1.31**	33.3	A	R			
T	**UG-1103/U**		8	Conven., Teflon Ins., Incs. Armor Clamp	**3.40**	86.4	**0.60**	15.2	**0.08**	2.0	**0.75**	19.1	**1.25**	31.8	A	R			

R — request from factory.

ANGLE PLUGS
BULKHEAD RECEPTACLES
PANEL RECEPTACLES

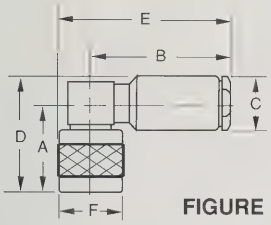
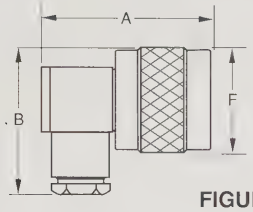


FIGURE 10



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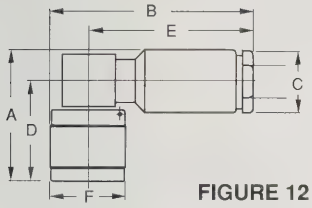

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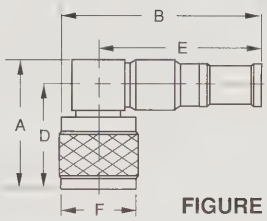

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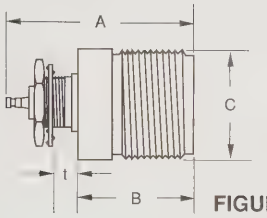

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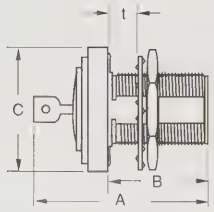

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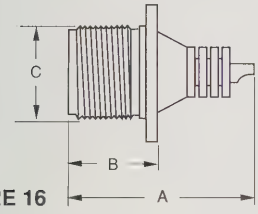
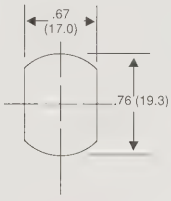
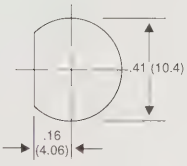


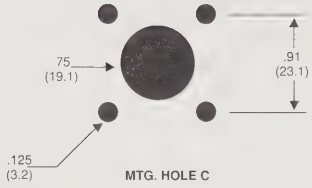
FIGURE 16



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

ANGLE PLUGS

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	CONSTRUCTION / NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
DE	**KH-59-29**		11	Conventional, Wire Holes	**1.53**	38.9	**1.25**	31.8							**0.87**	22.1	R			
M-1		**KH-59-64**	13	Wthrprf. K-Grip, Jr., Capt. Cont., Wire Holes	**1.50**	38.9	**2.40**	61.0			**1.19**	30.2	**1.96**	49.8	**0.88**	22.3	5403	KTH-1078	KTJ-154	KTD-137
MN	**KH-59-26**		10	Conventional, Wire Holes	**1.56**	39.6	**2.37**	60.2	**0.75**	19.1	**1.19**	30.2	**1.94**	49.3	**0.87**	22.1	R			
N-1	**KH-59-24**	**KH-59-24-M06**	12	K-Grip, Wire Holes	**1.56**	39.6	**2.81**	71.4	**0.75**	19.1	**1.18**	30.0	**2.37**	60.2	**0.87**	22.1	208A	KTH-2004	KTJ-23	KTD-82
N-1		**KH-59-66**	13	Wthrprf. K-Grip, Jr., Capt. Cont., Wire Holes	**1.50**	38.9	**2.40**	61.0			**1.19**	30.2	**1.96**	49.8	**0.88**	22.4	5403	KTH-1079	KTJ-154	KTD-137
P	**KH-59-84**		10	Conventional	**1.56**	39.6	**2.38**	60.5	**0.75**	19.1	**1.19**	30.2	**1.92**	48.8	**0.87**	22.1	1031			
RG-400/U	**KH-59-96-MC7**		13	K-Grip Jr., Capt. Cont., Wire Holes	**1.50**	38.9	**2.13**	54.1			**1.19**	30.2	**1.69**	42.9	**0.88**	22.4	489	KTH-2042	KTJ-162	KTD-208

BULKHEAD RECEPTACLES

KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	F in	F mm	t in	t mm	MTG. HOLE
KH-79-07			15	Hermetic, Rear Mounting	**1.74**	44.2	**1.00**	25.4	**1.25**	31.8							**0.72**	18.3	A
KH-79-15			NS	Rear Mounting													**0.38**	9.6	A
	KH-79-19-M06		14	Front Mounting	**1.25**	31.8	**0.76**	19.3	**0.75**	19.1							**0.175**	4.5	B

PANEL RECEPTACLES

UG-496/U	**KH-79-12**		16	Rexolite Insulation	**1.53**	38.9	**0.67**	17.0	**0.75**	19.1									C

R — request from factory.

ADAPTERS WITHIN SERIES
ACCESSORIES

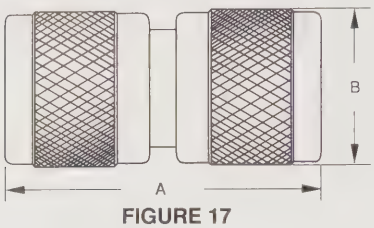


FIGURE 17

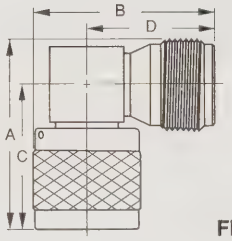


FIGURE 18

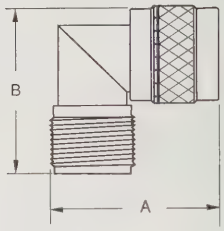


FIGURE 19

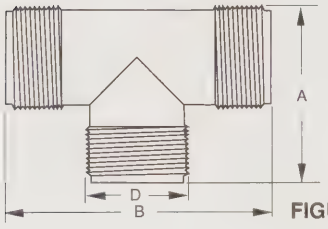


FIGURE 20

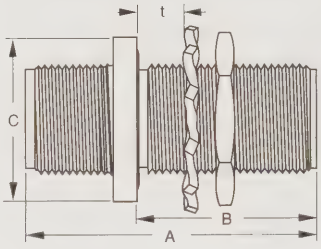


FIGURE 21

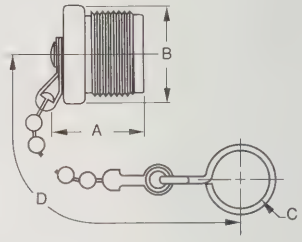


FIGURE 22

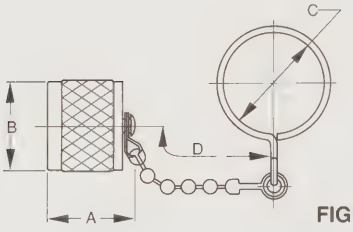
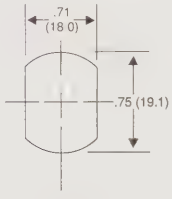
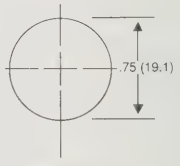


FIGURE 23



MTG. HOLE A



MTG. HOLE B

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
					A		B		C		D		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	
KH-99-20-MC7		21	Jck-Jck	Hermetic, Bulkhead	**1.94**	49.3	**1.06**	26.9	**1.06**	26.9			**0.318**	8.1	A
KH-99-06	**KH-99-11**	21	Jck-Jck	Bulkhead	**1.97**	50.0			**1.00**	25.4					B
KH-99-10		17	Plg-Plg		**1.85**	47.0	**0.87**	22.1							
UG-212A/U		19	Plg-Jck	Right Angle, Polyethelene Insulation	**1.53**	38.9	**1.77**	45.0							
UG-212C/U	**KH-98-01-M06**	18	Plg-Jck	Right Angle, Teflon Insulation, Wire Holes	**1.56**	39.6	**1.52**	38.6	**1.19**	30.2	**1.08**	27.4			
UG-413/U		20	Jck-Jck-Jck		**1.28**	32.5	**1.94**	49.3			**0.75**	19.1			
UG-1108/U			Plg-Jck		**1.52**	38.6	**0.72**	18.3							
UG-1019/U	**KH-91-07-M06**	21	Jck-Jck	Bulkhead	**1.97**	50.0	**1.28**	32.5	**1.00**	25.4	**1.00**	25.4	**0.335**	8.5	A

ACCESSORIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	DESCRIPTION	DIMENSIONS							
						A		B		C		D	
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KH-89-01			23		Cap – Male with Bead Chain	**0.85**	21.6	**0.88**	22.4	**1.00**	25.4	**6.0**	152.4
KH-89-02			22		Cap – Female with Bead Chain	**0.81**	20.6	**0.88**	22.4	**0.48**	12.2	**4.5**	114.3

UHF series connectors are a low cost, general purpose connector for use on small and medium size coaxial cables .199" to .432" OD. They are a non-constant impedance connector giving satisfactory performance up to 200 MHz, usable with caution to 500 MHz. They are non-weatherproof.

CABLE GROUPS — RG/U, M17		
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59,
		M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393
Q		Belden 8281, WE 724

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 200 MHz 0 to 500 MHz with caution
Voltage Rating	500 volts rms

ENVIRONMENTAL

Temperature Range	Mica Filled Phenolic Insulators: –67°F to +300°F (–55°C to +149°C) Polystyrene Insulators: –67°F to +185°F (–55°C to +85°C) Rexolite Insulators: –67°F to +185°F (–55°C to +85°C) PTFE Insulators: –85°F to +329°F (–65°C to +165°C)

Specifications are typical and may not apply to all connectors.

MECHANICAL

Mating	5/8-24 threaded coupling

MATERIAL

Except as noted in connector listings

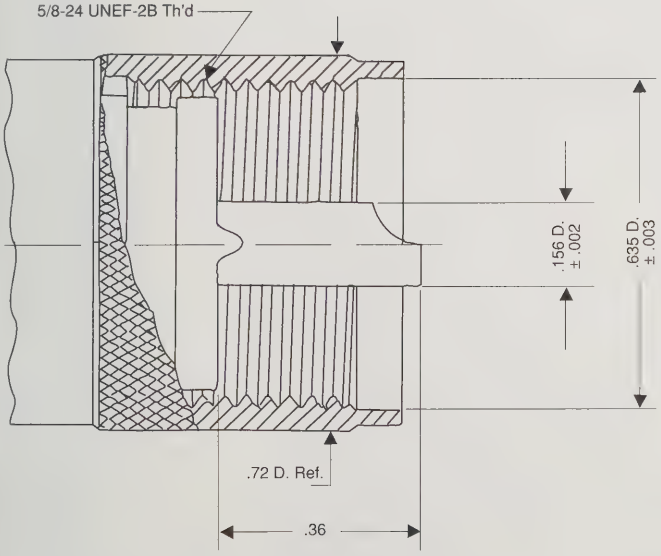
Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Die Cast Zinc
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	1. Mica Filled Phenolic 2. Polystyrene ASTM D703-56T Type 4 3. Rexolite 1422, MIL-P-77 Type E-2 4. PTFE, ASTM D1457

FINISHES

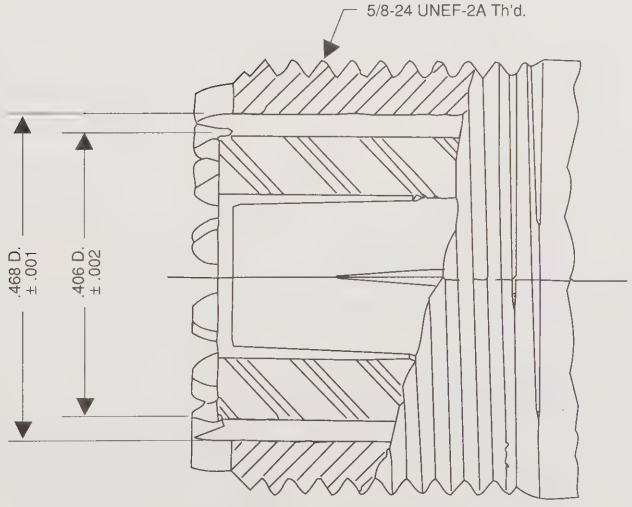
Contacts	.0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

PLUG



JACK



PLUGS

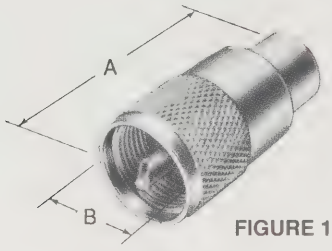


FIGURE 1

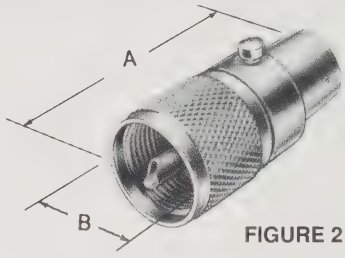


FIGURE 2

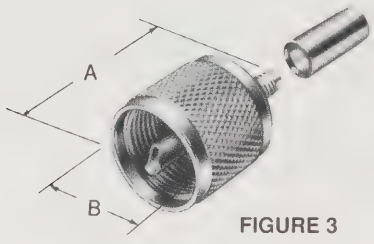


FIGURE 3

CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	NOTES	DIMENSIONS				CABLING			
					A		B					
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
G	**UG-203/U**		2	Phenolic Insulation	**1.56**	39.6	**0.72**	18.3	1701			
MN	**KU-51-07**	**KU-59-55**	1	Teflon Insulation	**1.50**	38.1	**0.72**	18.3	1701			
MN	**NT-49195**		2	Teflon Insulation	**1.56**	39.6	**0.72**	18.3	1701			
MN	**PL-259**	**KU-59-22**	1	Phenolic Insulation	**1.50**	38.1	**0.72**	18.3	1701			
MN	**PL-259A**		2	Phenolic Insulation	**1.56**	39.6	**0.72**	18.3	1701			

K-GRIP, JR. CONSTRUCTION

D	**KU-59-07**	**KU-59-07-M06**	3	Phenolic Insulation	**1.39**	35.3	**0.72**	18.3	410	KTH-2001	KTJ-69	KTD-34
D	**KU-59-26**	**KU-59-33**	3	Phenolic Insulation, Bullet Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2001	KTJ-69	KTD-34
D		**KU-59-38**	3	Teflon Insulation, Bullet Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2001	KTJ-69	KTD-34
D	**KU-59-46**	**KU-59-53**	3	Phenolic Insuation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2001	KTJ-69	KTD-34
D	**KU-59-61**		3	Teflon Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2001	KTJ-69	KTD-34
G-1	**KU-59-14**	**KU-59-35**	3	Phenolic Insulation	**1.39**	35.3	**0.72**	18.3	410	KTH-2002	KTJ-69	KTD-33
G-1	**KU-59-44**	**KU-59-54**	3	Phenolic Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2002	KTJ-69	KTD-33
G-1	**KU-59-62**		3	Teflon Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2002	KTJ-69	KTD-33
M	**KU-59-02**	**KU-59-48**	3	Phenolic Insulation	**1.39**	35.3	**0.72**	18.3	410	KTH-2003	KTJ-68	KTD-35
M-1	**KU-59-40**	**KU-59-82-M06**	3	Teflon Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2003	KTJ-68	KTD-35
M-1	**KU-59-42**	**KU-59-52**	3	Phenolic Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2003	KTJ-68	KTD-35
M-2	**KU-59-43**	**KU-59-58**	3	Phenolic Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2003	KTJ-68	KTD-35
N-1	**KU-59-24**	**KU-59-50**	3	Phenolic Insulation	**1.39**	35.3	**0.72**	18.3	410	KTH-2004	KTJ-68	KTD-35
Q	**KU-59-56**	**KU-59-59**	3	Phenolic Insulation, Crimp Contact	**1.39**	35.3	**0.72**	18.3	410	KTH-2012	KTJ-68	KTD-32

BULKHEAD RECEPTACLES
PANEL RECEPTACLES
ADAPTERS WITHIN SERIES

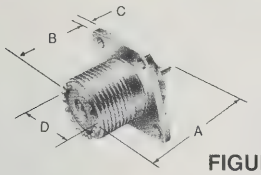


FIGURE 4

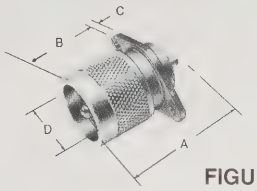


FIGURE 5

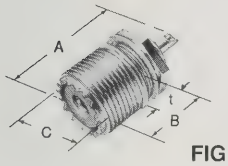


FIGURE 6

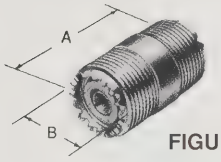


FIGURE 7

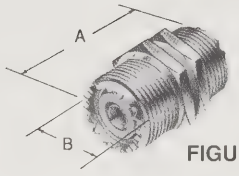
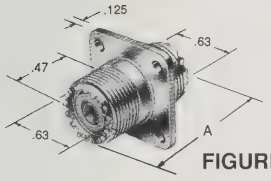


FIGURE 8



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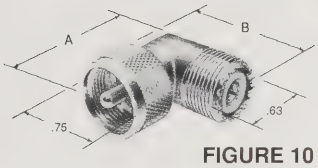


FIGURE 10

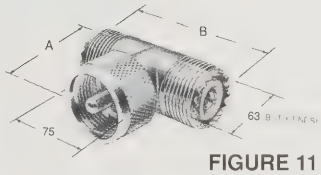
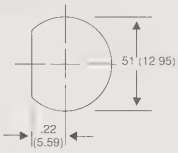
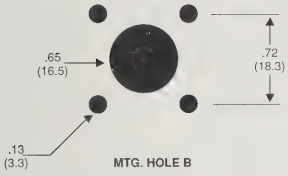


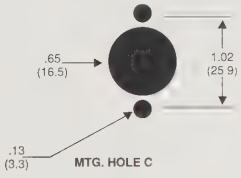
FIGURE 11



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

MTG. HOLE D

MTG. HOLE E

BULKHEAD RECEPTACLES

KINGS PART NUMBER		FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
					A		B		C		D		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	
	KU-79-18	6		Teflon Insulation, Ground Lug	**1.11**	28.2	**0.50**	12.7	**0.63**	16.0			**0.188**	4.8	A
KU-79-11	**KU-79-19**	6		Teflon Insulation	**1.11**	28.2	**0.50**	12.7	**0.63**	16.0			**0.188**	4.8	A

PANEL RECEPTACLES

KU-79-03	**KU-79-33**	NS		S0-239 with Elliptical Flange, Phenolic Insulation											C
KU-79-31		5		Teflon Insulation	**1.22**	31.0	**0.82**	20.8	**0.08**	2.0	**0.72**	18.3			C
NT-49194	**KU-79-20**	4		Teflon Insulation	**1.06**	26.9	**0.56**	14.2	**0.08**	2.0	**0.63**	16.0			B
S0-239	**KU-71-02-M06**	4		Phenolic Insulation	**1.06**	26.9	**0.56**	14.2	**0.08**	2.0	**0.63**	16.0			B

ADAPTERS WITHIN SERIES

M-358 **NT-49199**	**KU-99-12**	11	Jck-Plg-Jck	Rexolite Insulation	**1.20**	30.5	**1.63**	41.4							
M-359 **NT-49192**	**KU-99-15**	10	Plg-Jck	Polystyrene Insulation	**1.20**	30.5	**1.19**	30.2							
PL-258 **NT-49191**	**KU-99-08**	7	Jck-Jck	Polystyrene Insulation	**1.13**	28.7	**0.63**	16.0							
UG-224/U		8	Jck-Jck	Polystyrene Insulation	**1.38**	35.1	**0.63**	16.0							E
UG-307/U	**KU-99-11**	9	Jck-Jck	Polystyrene Insulation	**1.13**	28.7									D
UG-363/U **PL-274** **NT-49149**	**KU-99-14**	8	Jck-Jck	Polystyrene Insulation, Pressurized	**2.00**	50.8	**0.63**	16.0							E

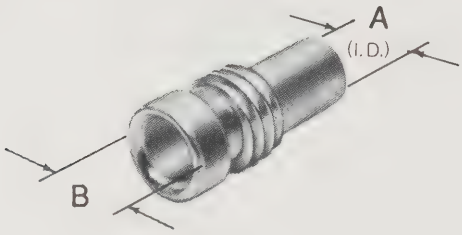


FIGURE 12

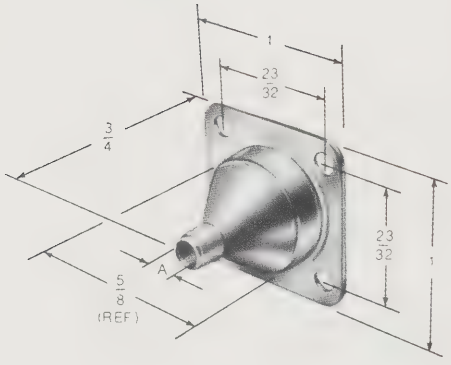


FIGURE 13

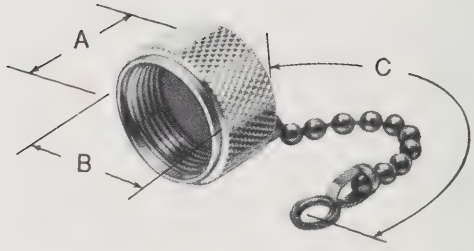


FIGURE 14

ACCESSORIES

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	DESCRIPTION	DIMENSIONS A in	A mm	B in	B mm	C in	C mm
D	**UG-175/U**	**KU-89-06**	12	Cable Reducing Adapter	**0.208**	5.3	**0.437**	11.1		
DE	**UG-177/U**	**KU-89-11**	13	Hood	**0.15**	3.8				
G	**UG-176/U**	**KU-89-05**	12	Cable Reducing Adapter	**0.256**	6.5	**0.437**	11.1		
K-2, K-3	**UG-173/U**	**KU-89-12**	12	Cable Reducing Adapter	**0.298**	7.6	**0.437**	11.1		
MN	**UG-106/U** **NT-49193** **M-360**		13	Hood	**0.34**	8.6				
	MX-913/U		14	Cap – Male with Bead Chain	**0.563**	14.3	**0.75**	19.1	**2.50**	63.5

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

TWIN series connectors are polarized non-constant impedance connectors used with 95 ohm twin center conductor RG-22/U type cables. They are recommended for use up to 200 MHz, usable with caution to 500 MHz. They are weatherproof. TWIN connectors are covered by applicable sections of MIL-C-3655. TWIN series is larger than, and is not matable with UHF TWIN connectors.

There is a group of items within this TWIN series (KU numbered items) that are specifically designed for use on IBM systems 34 and 38 installations accomodating IBM and Belden cables. These connectors can interface IBM host-compatible network communications where minimum crosstalk and balanced circuits are necessary in interconnecting work stations.

Specifications are typical and may not apply to all connectors.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 200 MHz 0 to 500 MHz with caution
Voltage Rating	500 volts rms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to +85°C)

MECHANICAL

Mating	3/4-20 threaded coupling

MATING KEY

MATERIAL

Except as noted in connector listings

Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457, Rexolite 1422, MIL-P-77 Type E-2
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

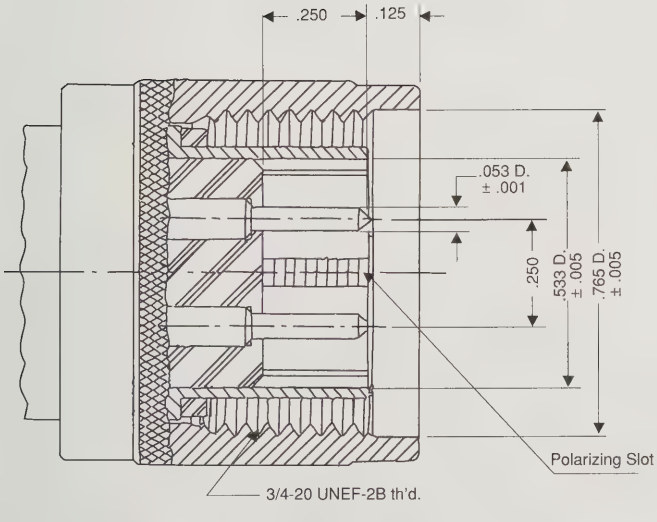
FINISHES

Contacts	1. .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment. 2. .00005" (.00125mm) min. hard gold plate, MIL-G-45204B.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

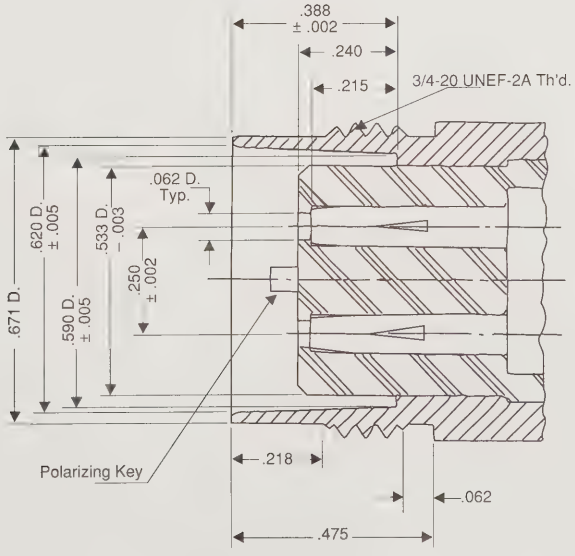
TWIN

INTERFACE

PLUG



JACK



PLUGS / JACKS / RECEPTACLES ADAPTERS WITHIN SERIES TERMINATIONS

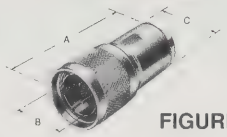


FIGURE 1

FIGURE 2

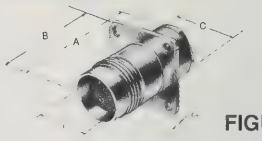


FIGURE 3

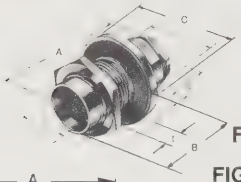


FIGURE 4

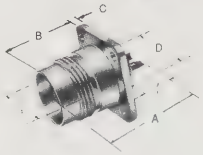


FIGURE 5

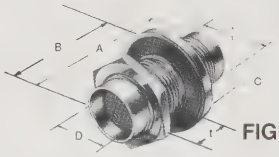
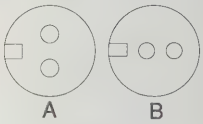
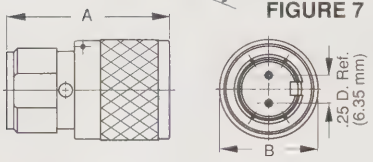


FIGURE 6



MATING KEYS

FIGURE 7



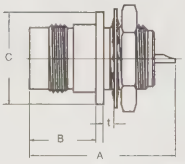
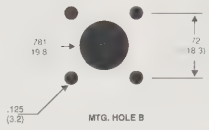
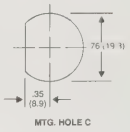
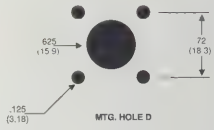


FIGURE 8







PLUGS

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH		FIG. NO.	MATING KEY	ADPTR ENDS	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG HOLE	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
BELDEN 8227 & 9207 IBM 7362211		**KU-59-99-M06**	IBM 7362229	1	A		Conventional	**1.91**	48.5	**0.88**	22.4	**0.75**	19.1						421B-5	
BELDEN 8227 & 9207 IBM 7362211		**KU-59-100-M06**		2	A		K-Grip Crimp Contacts	**1.93**	49.0	**0.88**	22.4								3-105	KTH-2010
BELDEN 89207		**1675-4-9**		1	A		Conventional	**1.91**	48.5	**0.88**	22.4	**0.75**	19.1						421B-5	
RG-22/U	**UG-421B/U**			1	A		Cnv., Rex. Ins, Gld Pltd Conts.	**1.91**	48.5	**0.88**	22.4	**0.75**	19.1						1801	

JACKS

BELDEN 8227 & 9207 IBM-7362211		**KU-19-11-M06**		4	A		Bulkhead, K-Grip, Rear Mounting	**1.66**	42.2	**0.88**	22.4	**1.25**	31.2			**0.195**	5.0	A	3-263	KTH-2010
RG-22/U 22A/U 22B/U	**UG-423/U**			3	A		Panel, Conventional, Gold Plated Contacts	**1.75**	44.5	**0.71**	18.0	**0.75**	19.1					B	R	

RECEPTACLES

		KU-79-51-M06	IBM 7362179	8	A		Bulkhead, Front Mount	**1.56**	39.6	**0.71**	18.0	**1.06**	26.9			**0.292**	7.4	C		
	UG-422/U			5	A		Panel, Rexolite Ins., Gold Plated Contact	**1.19**	30.2	**0.71**	18.0	**0.08**	2.0	**0.63**	16.0			D		

ADAPTERS WITHIN SERIES

		KU-99-21-M06	IBM 7362230	NS	A	Jck-Jck	Straight Adapter													
	UG-493A/U			6	A	Jck-Jck	Rexolite Insulation	**1.67**	42.4	**0.88**	22.4	**1.125**	28.6	**0.75**	19.1	**0.218**	5.5	C		

TERMINATIONS

KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	MATING KEY	DESCRIPTION	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E	F
	KU-89-31-M06	IBM 7362188	7	A	Male, Wire Holes	54.9 Ohms (±1%) Resistance between each contact and connector body	**1.44**	36.6	**0.88**	22.4						

R — request from factory

TWBNC (TWIN BNC) series connectors are a polarized contact design (one male, one female) in a BNC body — 2 stud bayonet coupling, and are weatherproof. They accommodate twin center conductor RG-22/U type cables. Center contacts are captivated. They are recommended for use up to 100 MHz. TWBNC are covered by applicable sections of MIL-C-3655.

SPECIFICATIONS

ELECTRICAL

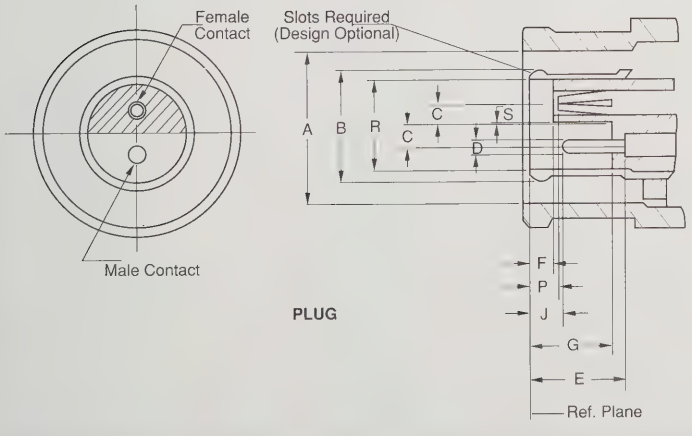
Nominal Impedance	78 ohms
Voltage Rating	500 volts rms
Dielectric Withstanding Voltage	1500 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	
Center Contacts (gold plate)	3.0 milliohms
Outer Contacts	.4 milliohms

INTERFACE

Per MIL-C-3655 or MIL-STD-348 as applicable

Dim	Inches		Millimeters	
Ltr	Min.	Max.	Min.	Max.
A	.385	.390	9.78	9.91
B	Mating Test			
C	.062	.064	1.57	1.63
D	.037	.039	0.94	0.99
E	.228	.260	5.79	6.60
F	.028	.042	0.71	1.07
G	.206	.228	5.23	5.79
J	.035	.065	0.89	1.65
P	.032	.062	0.81	1.57
R	.264	—	6.71	—
S	.001	.004	0.03	0.10

PLUG



PLUG

ENVIRONMENTAL

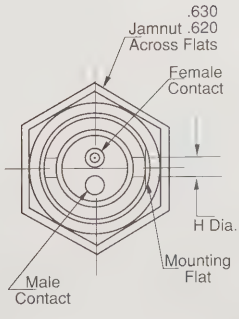
Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to +85°C) Valox Insulators: –99°F to +302°F (–73°C to +150°C)
Vibration	MIL-STD-202 Method 204, test condition B
Shock	MIL-STD-202 Method 213
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Moisture Resistance	MIL-STD-202 Method 106

MECHANICAL

Mating	BNC 2 stud bayonet coupling contact polarization — one male, one female.
Center Contact Retention	6 lbs. axial force applicable to captivated center contact connectors only.
Connector Durability	100 cycles

Dim	Inches		Millimeters	
Ltr	Min.	Max.	Min.	Max.
A	.378	.381	9.60	9.68
B	.345	.356	8.76	9.04
C	.327	.336	8.31	8.53
D	.319	.321	8.10	8.15
E	.037	.039	0.94	0.99
F	.432	.436	10.97	10.07
G	.329	.333	8.36	8.46
H	.075	.081	1.90	2.06
J	.171	.200	4.34	5.08
K	.204	.208	5.18	7.11
L	.062	.064	1.57	1.63
N	—	.262	—	6.65
P	.188	.206	4.78	5.23
S	.015	.030	0.38	0.76
T	0	.028	0.0	0.71
U	.001	.004	0.03	0.10
V	.170	.200	4.32	5.08
W	0	.040	0.0	1.02

JACK



MATERIAL

Except as noted in connector listings

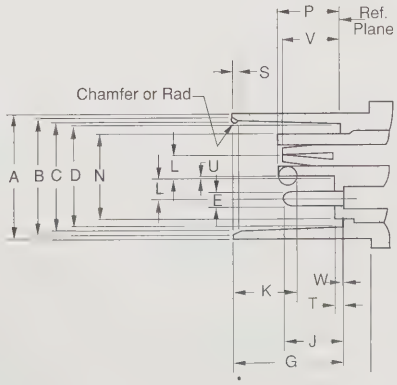
Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard 2. Die Cast Zinc
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Male Outer Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	1. PTFE, ASTM D1457, 2. Rexolite 1422, MIL-P-77 Type E-2 3. Valox 420 SEO Thermoplastic polyester Resin
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

Contacts	1. .0001" (.0025 mm) min. hard gold plate MIL-G-45204B 2. .0002" (.005mm) min. silver plate, QQ-S-365A, plus TR-4® electrolytic chromate treatment.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus Kings TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

Specifications are typical and may not apply to all connectors.

JACK



PLUGS

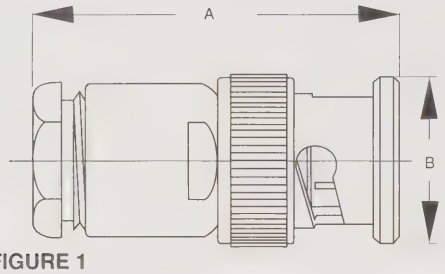


FIGURE 1

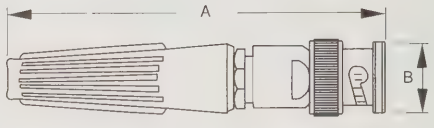


FIGURE 2

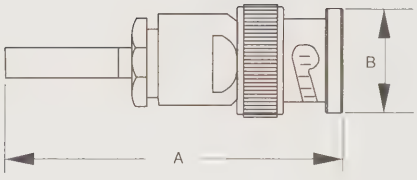
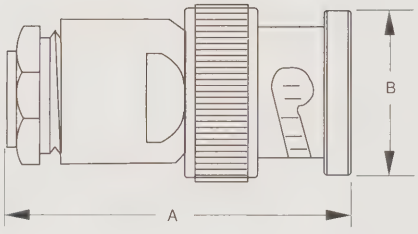


FIGURE 3



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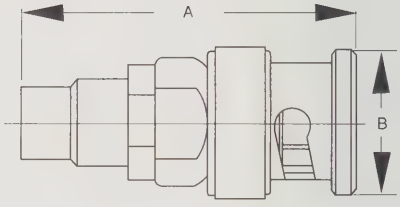


FIGURE 5

PLUGS

CABLE GROUP	KINGS PART NUMBER		CONSTRUCTION	FIG. NO.	NOTES	DIMENSIONS				CABLING			
						A		B					
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
BELDEN 9265		**2015-6-9**	Pre-Assem. K-Grip	3	Captive Contacts	**1.89**	50.3	**0.56**	14.2	3-97	KTH-2122		
BELDEN 9265		**2015-6-10-M06**	Pre-Assem. K-Grip	2	Captive Contacts, with Boot	**2.83**	71.9	**0.56**	14.2	3-97	KTH-2122		
BELDEN 9272 RG-108/U M17/186-00001		**2015-7-10-M06**	Conventional	1	Captive Contacts, Gold Plated, Rexolite Insulation	**1.10**	27.9	**0.56**	14.2	3801-3			
BELDEN 9272 RG-108/U		**2015-7-25-M06**	Taper Grip	1	Captive Contacts, Gold Plated	**1.16**	29.5	**0.56**	14.2	3801-2			
M17-045-RG108	**2015-9-5**		K-Grip	4	Captive Contacts, Gold Plated	**1.50**	38.1	**0.56**	14.2	3-344	KTH-2137		
RG-22B/U		**2015-8-11**	Taper Grip	1	Captive Contacts, Gold Plated	**1.26**	32.0	**0.75**	19.1	3801-1			
RG-108A/U	**2015-1**		K-Grip	4	Captive Contacts	**1.26**	32.0	**0.56**	14.2	C-59-302-8	KTH-2002		
RG-108A/U	**2015-1-10**	**2015-1-11**	K-Grip	4	Captive Contacts, Gold Plated	**1.26**	32.0	**0.56**	14.2	C-59-302-8	KTH-2002		
RG-108A/U	**2015-2**	**2015-2-9**	Conventional	1	Captive Contacts, Gold Plated	**1.25**	32.0	**0.56**	14.2	3-41			
RG-108A/U	**2015-3-M07**		K-Grip, Jr.	5	Captive Contacts	**1.28**	32.0	**0.56**	14.2	3-75	AMP 69667		

BULKHEAD JACKS
BULKHEAD RECEPTACLES

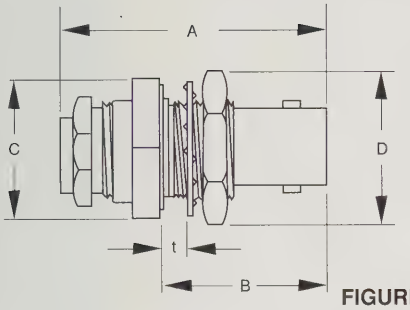


FIGURE 6

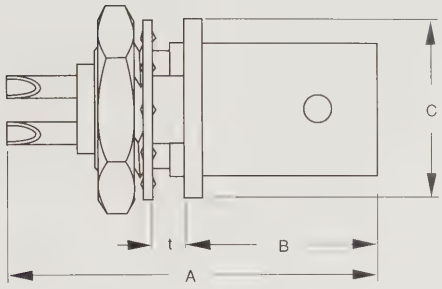


FIGURE 7

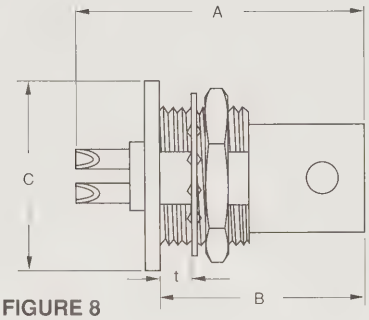
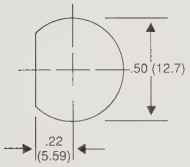
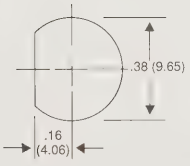


FIGURE 8



MTG. HOLE A



MTG. HOLE B

BULKHEAD JACKS

CABLE GROUP	KINGS PART NUMBER		CONSTRUCTION	FIG. NO.	NOTES	DIMENSIONS										CABLING	
	SILVER FINISH	TR-5 FINISH				A		B		C		D		t		MTG. HOLE	CBL. TRIM CODE	CRIMP DIE
						in	mm	in	mm	in	mm	in	mm	in	mm			
M17-045-RG108	**2012-1-M07**		K-Grip	6	Rear Mtg., Teflon Ins., Capt. Cont., Gold Pltd.	**1.33**	33.8	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.241**	6.1	A	C-59-302-8	KTH-2002
M17-045-RG108	**2012-1-10**		K-Grip	6	Rear Mtg., Capt. Cont., Gold Pltd., Rexolite Ins.	**1.33**	33.8	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.241**	6.1	A	C-59-302-8	KTH-2002

BULKHEAD RECEPTACLES

KINGS PART NUMBER		FIG. NO.	NOTES	DIMENSIONS										MTG. HOLE
				A		B		C		D		t		
SILVER FINISH	TR-5 FINISH			in	mm	in	mm	in	mm	in	mm	in	mm	
2004-1		7	Front Mount, Contacts Gold Plated	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.50**	12.7	**0.127**	3.2	B
	2014-4-9	7	Front Mount, Contacts Gold Plated	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.50**	12.7	**0.127**	3.2	B
	2014-6-9	8	Rear Mount, Contacts Gold Plated	**1.24**	31.5	**0.83**	21.1	**0.73**	18.5	**0.63**	16.0	**0.28**	7.1	A
	2014-2-25	7	Front Mount, Contacts Silver Plated, Valox Insulation	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.50**	12.7	**0.127**	3.2	B
2014-1		7	Front Mount, Contacts Gold Plated	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.38**	9.7	**0.127**	3.2	B
	2014-1-9-M06	7	Front Mount, Teflon Insulation, Contacts Silver Plated	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.38**	9.7	**0.127**	3.2	B
2014-1-10	**2014-1-11**	7	Front Mount, Rexolite Insulation, Contacts Gold Plated	**1.03**	26.2	**0.54**	13.7	**0.50**	12.7	**0.38**	9.7	**0.127**	3.2	B

PRINTED CIRCUIT BOARD RECEPTACLES
ADAPTERS WITHIN SERIES

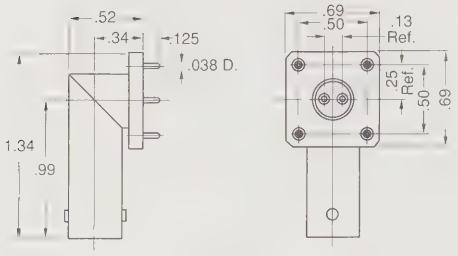


FIGURE 9

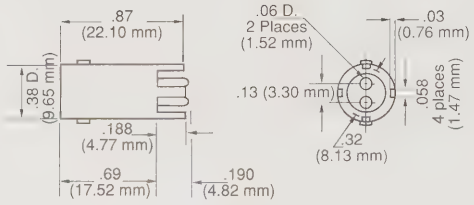


FIGURE 10

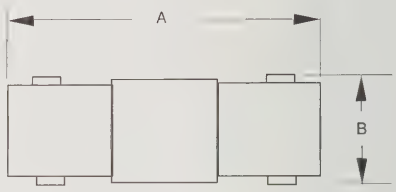


FIGURE 11

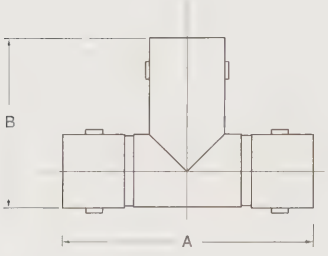


FIGURE 12

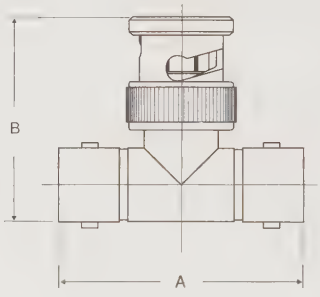


FIGURE 13

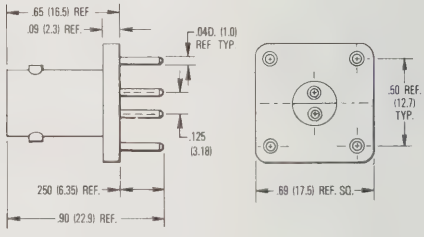


FIGURE 14

PRINTED CIRCUIT BOARD RECEPTACLES

KINGS PART NUMBER		FIG. NO.	NOTES	MAX PC BD. THICKNESS		PLATING	
SILVER FINISH	TR-5 FINISH			in	mm	MTG. PINS	CONTACT
	2017-1-9	14		**0.25**	6.4	Silver	Silver
	2017-2-9	9	Right Angle, Brass Body, Teflon Insulation	**0.25**	6.4	Silver	Silver
2017-4-5	**2017-4-9**	10		**0.125**		Silver	Silver
	2017-3-25	9	Right Angle, Die Cast Body, Valox Insulation	**0.125**		Silver	Silver

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS			
					A		B	
SILVER FINISH	TR-5 FINISH				in	mm	in	mm
	2019-3-9	11	Jack-Jack	Brass Body, Teflon Insulation	**1.28**	32.5	**0.435**	11.1
	2019-4-9	12	Jack-Jack-Jack	Brass Body, Teflon Insulation	**1.28**	32.5	**0.91**	23.1
	2019-5-25	12	Jack-Jack-Jack	Brass Body, Valox Insulation	**1.28**	32.5	**0.92**	23.4
	2019-6-25	13	Jack-Plug-Jack	Brass Body, Valox Insulation	**1.28**	32.5	**1.03**	26.2
	2019-8-25	12	Jack-Jack-Jack	Die Cast Body, Valox Insulation	**1.28**	32.5	**0.88**	22.4

SHV / MHV / 10 KV / 20 KV DESCRIPTION/SPECIFICATIONS

This section contains four high voltage connector series — SHV, MHV, 10 KV and 20 KV. While all four have a bayonet coupling, they are not intermateable. All four series are weatherproof.

The SHV series is manufactured in accordance with National Bureau of Standards specification ND-545, and MIL-C-39012 where applicable, and features an improved interface over the MHV series. The SHV outer contact ground connection is maintained through the center contact mating cycle. The center contacts are recessed to prevent shock hazards when the connectors are unmated. The SHV is rapidly replacing the MHV series in many areas. SHV to MHV adapters are listed for use when changeover to SHV is required.

The MHV series connector, forerunner of the SHV series, was designed for high voltage applications of BNC connectors (voltage greater than 500 vrms). MHV connectors are sometimes referred to as high voltage BNC, but are not intermateable with BNC connectors. MHV connectors are covered under MIL-C-39012.

Kings 10 KV and 20 KV connectors feature special high voltage interfaces, and are ideally suited for pulse applications.

Kings high voltage connectors are designed for use where the normal operating voltage of standard coaxial connectors is inadequate. They are commonly used in military and nuclear applications, as well as medical electronics. Major uses include research laboratories, manufacturers of nuclear control instrumentation and accelerator laboratories. The SHV series is used in both the NIM (Nuclear Instrumentation Module) and Camac programs.

CABLE GROUPS — RG/U, M17		
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001,
		M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142,
		M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59,
		M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71
M	M-1	8, 8A, 213, M17/74-RG213
	M-2	11, 11A, M17/6-RG11
N	N-1	9, 9A, 9B, 214, M17/75-RG214
	N-2	13A, 216, M17/77-RG216
	N-3	225, M17/127-RG393

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.

SPECIFICATIONS

ELECTRICAL

	SHV	MHV	10 KV	20 KV
Nominal Impedance	Non-constant	Non-constant	Non-constant	Non-constant
Voltage Rating				
Operating	3500 vrms 5000VDC	3500 vrms 5000VDC	10 KVDC	20 KVDC
Test	5000 vrms 10000 VDC	5000 vrms 6500 VDC	15 KVDC	30 KVDC
Insulation Resistance	10^6 megohms	5000 megohms	10^6 megohms	10^6 megohms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to +85°C) Polyethylene Insulators: –67°F to +185°F (–55°C to +85°C)
Vibration	MIL-STD-202 Method 204, test condition A
Shock	MIL-STD-202 Method 213, test condition I
Corrosion (salt spray)	MIL-STD-202 Method 101, test condition B
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.
Compression Seals	Gasketed units show no leakage at 50 psi.

MECHANICAL

Mating	2 stud bayonet coupling SHV and MHV — per MIL-C-39012 or MIL-STD-348 as applicable.

Specifications are typical and may not apply to all connectors.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Outer Contacts	
SHV, 10 KV	Beryllium Copper, QQ-C-530, Cond. HT
MHV, 20 KV	Brass, QQ-B-626, Alloy 360, 1/2 hard
Insulators:	
MHV, SHV	PTFE, ASTM D1457,
10KV, 20 KV	Polyethylene, High Density MIL-P-22748 Class B, Grade 5 As noted — Rexolite 1422, MIL-P-77 Type E-2
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

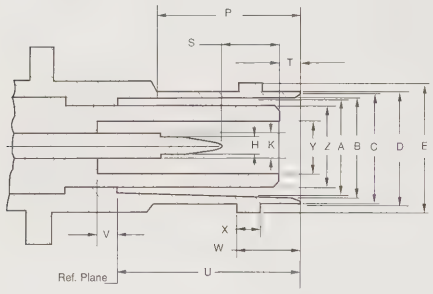
FINISHES

Contacts:	
SHV	.0001" (.0025 mm) min. hard gold plate MIL-G-45204B
MHV	.0002" (.005mm) min. silver plate, QQ-S-365A, plus TR-4® electrolytic chromate treatment.
10KV, 20 KV	.00005" (.00125 mm) min. hard gold plate MIL-G-45204B
Bodies & Fittings and Outer Contacts:	
SHV, 10 KV, 20 KV	TR-5® – Kings tarnish resistant alloy electrodeposit finish.
MHV	.0002" (.005mm) min. silver plate QQ-S-365A plus Kings TR-4® electrolytic chromate treatment.

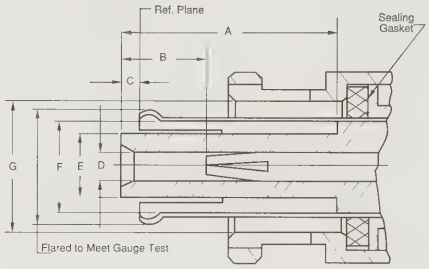
SHV / MHV / 10 KV / 20 KV INTERFACE DIMENSIONS

SHV

JACK

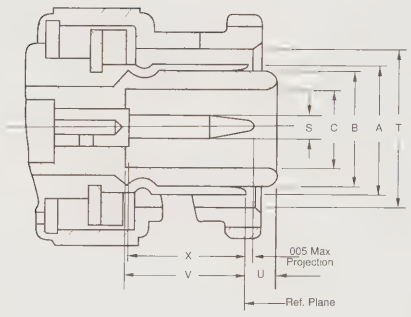


PLUG

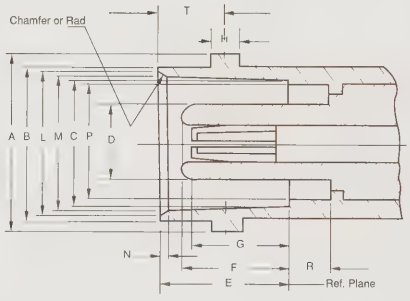


MHV

PLUG

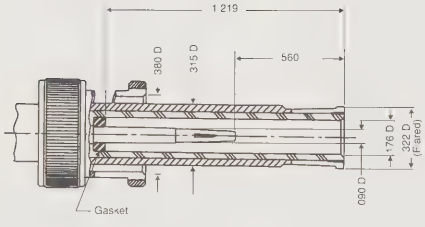


JACK



10 KV

PLUG



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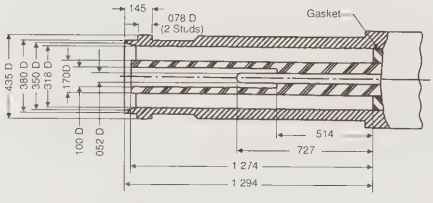
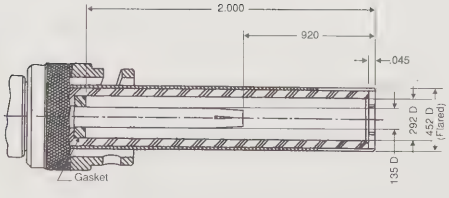
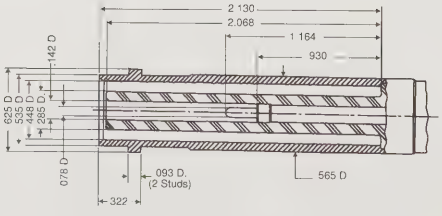


20 KV

PLUG



JACK



SHV — Jack

Dim	Inches		Millimeters	
Ltr	Min	Max	Min	Max
A	.319	.321	8.10	8.15
B	.328	.333	8.33	8.46
C	.347	.357	8.81	9.07
D	.378	.382	9.60	9.70
E	.432	.436	10.97	11.07
H	.052	.054	1.32	1.37
K	.081	.083	2.06	2.11
P	.427		10.85	
S	.188	.208	4.78	5.28
T	.061	.078	1.55	1.98
U	.626	.630	15.90	16.00
V	.064	.086	1.63	2.18
W	.204	.208	5.18	5.28
X	.075	.081	1.90	2.06
Y	.190	.196	4.83	4.98
Z		.260		6.60

SHV — Plug

Dim	Inches		Millimeters	
Ltr	Min	Max	Min	Max
A	.628	.632	15.95	16.05
B	.238	.262	6.05	6.65
C	.046	.064	1.17	1.63
D	.082		2.08	
E	.180	.186	4.57	4.72
F	.264		6.71	
G	.385	.390	9.78	9.91

MHV — Plug

Dim	Inches (mm)	Inches (mm)
Ltr	Minimum	Maximum
A	Gauge Test	
B	.278 (7.06)	.282 (7.16)
C	.190 (4.83)	.194 (4.93)
S	.052 (1.32)	.054 (1.37)
T	.385 (9.78)	.390 (9.91)
U		.086 (2.18)
V	.302 (7.67)	
X	.300 (7.62)	
Z	.045 (1.14)	.049 (1.24)

MHV — Jack

Dim	Inches (mm)	Inches (mm)
Ltr	Minimum	Maximum
A	.432 (10.97)	.436 (11.07)
B	.378 (9.60)	.382 (9.70)
C	.319 (8.10)	.321 (8.15)
D		.186 (4.72)
E	.327 (8.31)	.335 (8.51)
F	.289 (7.34)	.311 (7.90)
G	.253 (6.43)	.280 (7.11)
H	.075 (1.91)	.081 (2.06)
L	.346 (8.79)	.356 (9.04)
M	.327 (8.31)	.333 (8.46)
N	.015 (0.38)	.030 (0.76)
P	.284 (7.21)	.290 (7.37)
R	.086 (2.18)	
T	.165 (4.19)	.169 (4.29)

Specifications are typical and may not apply to all connectors.

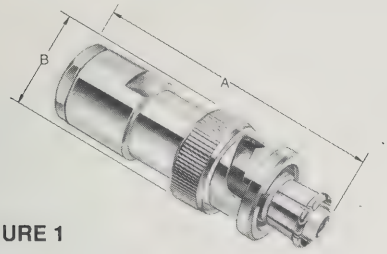


FIGURE 1

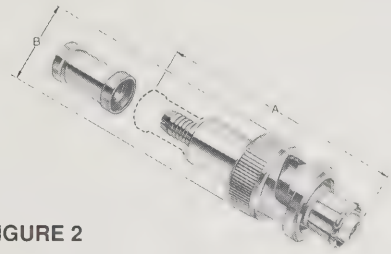


FIGURE 2

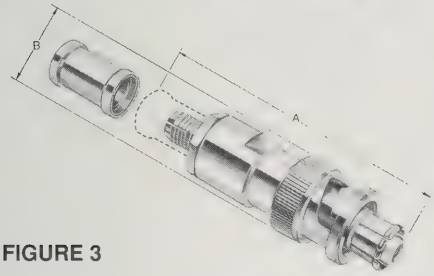


FIGURE 3

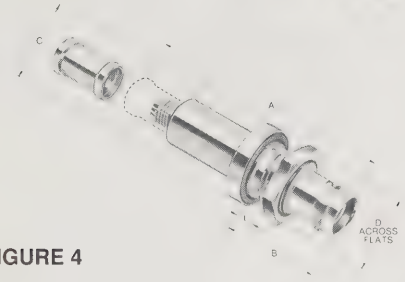
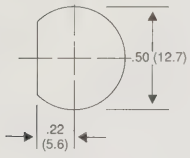
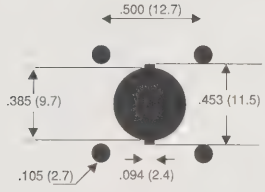


FIGURE 4

FIGURE 5



MTG. HOLE A



MTG. HOLE B

PLUGS – CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	NOTES	DIMENSIONS								CABLING			
					A		B		C		D		t		MTG. HOLE	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	in	mm	in	mm	in	mm					
DE		**1705-15-9**	1	Contact Gold Plate	**1.80**	45.7	**0.56**	14.2								1001			
G		**1705-14**	1		**1.81**	46.0	**0.56**	14.2								1001.3			

PLUGS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION

D		**1705-2**	2	Crimp Contact	**1.83**	46.5	**0.56**	14.2								441	KTH-2061	KTJ-72	KTD-136
G-1		**1705-1**	2	Crimp Contact	**1.83**	46.5	**0.56**	14.2								441	KTH-2062	KTJ-72	KTD-134
G-2		**1705-9**	2	Crimp Contact	**1.83**	46.5	**0.56**	14.2								441	KTH-2062	KTJ-72	KTD-134
N-1		**1705-4**	2	Crimp Contact	**2.14**	54.4	**0.63**	16.0								457	KTH-1079	KTJ-76	KTD-137

PLUGS – PRE-ASSEMBLED WEATHERPROOF K-GRIP CONSTRUCTION

B-1		**1705-3**	3	Crimp Contact	**2.01**	51.1	**0.56**	14.2								447	KTH-2071	KTJ-103	KTD-141
G-1		**1705-6**	3	Crimp Contact	**2.07**	52.6	**0.56**	14.2								451	KTH-2062	KTJ-98	KTD-148
M-1		**1705-7**	3	Crimp Contact	**2.32**	58.9	**0.63**	16.0								452	KTH-1078	KTJ-99	KTD-147
N-1		**1705-8**	3	Crimp Contact	**2.32**	58.9	**0.63**	16.0								452	KTH-1079	KTJ-99	KTD-147

BULKHEAD JACKS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION

D		**1702-2**	4	Crimp Contact, Rear Mtg.	**2.20**	55.9	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.227**	5.8	A	441	KTH-2061	KTJ-72	KTD-136
G-1		**1702-1**	4	Crimp Contact, Rear Mtg.	**2.20**	55.9	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.227**	5.8	A	441	KTH-2062	KTJ-72	KTD-134

PANEL JACKS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION

D		**1701-2**	5	Crimp Contact, Rear Mtg.	**2.20**	55.9	**0.87**	22.1	**0.44**	11.2	**0.42**	10.7			B	441	KTH-2061	KTJ-72	KTD-136
G-1		**1701-1**	5	Crimp Contact, Rear Mtg.	**2.20**	55.9	**0.87**	22.1	**0.44**	11.2	**0.42**	10.7			B	441	KTH-2062	KTJ-72	KTD-134

BULKHEAD RECEPTACLES
PANEL RECEPTACLES
ADAPTERS WITHIN SERIES

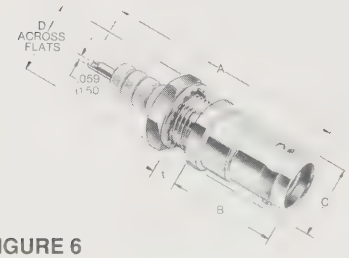


FIGURE 6

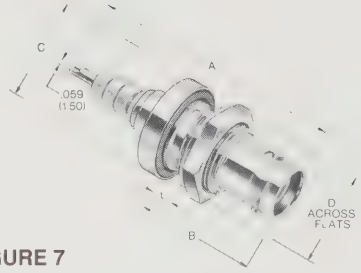


FIGURE 7

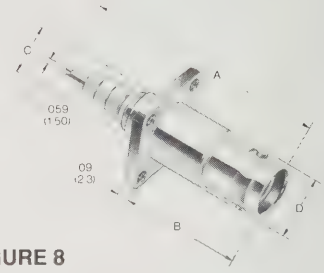


FIGURE 8

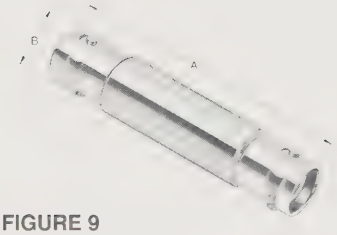


FIGURE 9

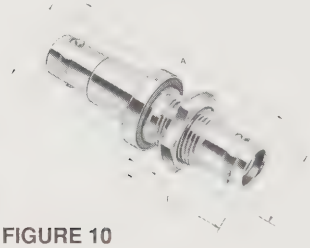


FIGURE 10

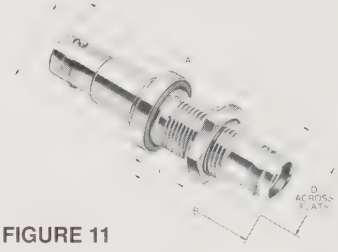


FIGURE 11

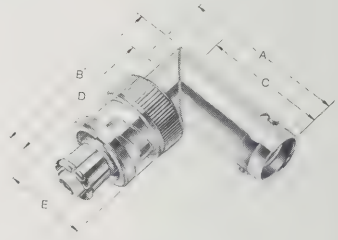


FIGURE 12

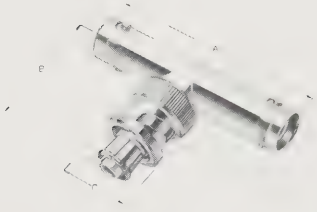
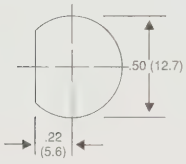
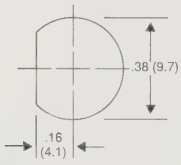


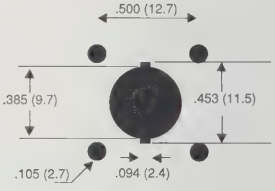
FIGURE 13



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS												MTG. HOLE
						A		B		C		D		E		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
	1704-1		6		Front Mounting	**1.79**	45.5	**0.76**	19.3	**0.50**	12.7	**0.50**	12.7			**0.182**	4.6	B
	1704-2		7		Rear Mounting	**1.79**	45.5	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0			**0.235**	6.0	A

PANEL RECEPTACLES

	1707-1		8			**1.79**	45.5	**0.87**	22.1	**0.35**	8.9	**0.44**	11.2					C

ADAPTERS WITHIN SERIES

	1709-1		10	Jck-Jck		**1.99**	50.6	**0.95**	24.1	**0.69**	17.5	**0.63**	16.0			**0.341**	8.7	A
	1709-2		11	Jck-Jck	Hermetic Seal	**2.25**	57.2	**1.15**	29.2	**0.69**	17.5	**0.63**	16.0			**0.571**	14.5	A
	1709-3		13	Jck-Plg-Jck		**1.71**	43.4	**1.39**	35.3	**0.56**	14.2							
	1709-5		9	Jck-Jck		**1.99**	50.6	**0.44**	11.2									
	1709-12		12	Jck-Plg		**1.59**	40.4	**1.39**	35.3	**1.31**	33.3	**1.17**	29.7	**0.56**	14.2			

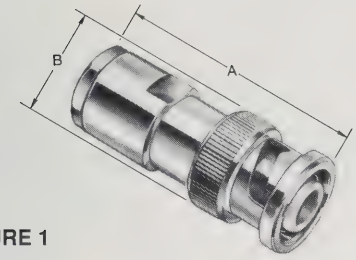


FIGURE 1

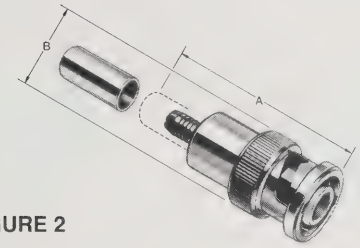


FIGURE 2

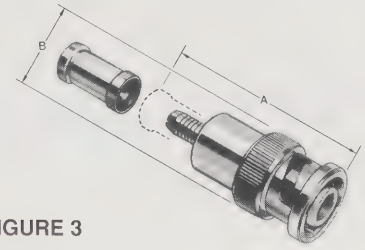


FIGURE 3

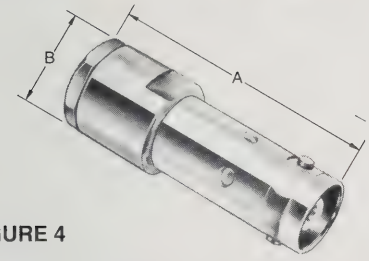


FIGURE 4

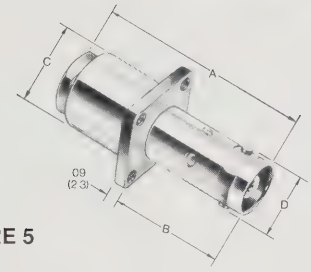
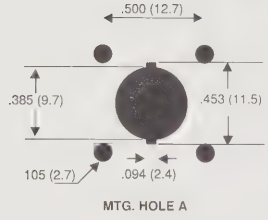


FIGURE 5



PLUGS – CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
B		**KV-59-70**		1	Center Contact, Gold Plated	**1.54**	39.1	**0.56**	14.2						1002			
DE	**KV-59-04**	**KV-59-61**		1		**1.56**	39.6	**0.56**	14.2						1002			
DE	**KV-59-56**			1	Polarized	**1.63**	41.4	**0.56**	14.2						1002			
G	**KV-59-03**	**KV-59-22**		1	Polarized	**1.63**	41.4	**0.56**	14.2						1002			
G	**UG-932/U**	**KV-59-24**		1		**1.55**	39.4	**0.56**	14.2						1003			
G	**UG-932A/U**	**KV-59-26**		1		**1.56**	39.6	**0.56**	14.2						1002			
G	**1685-2-5**		M39012/100-0001	1		**1.56**	39.6	**0.56**	14.2						1002			

PLUGS – K-GRIP, JR. CONSTRUCTION

D	**KV-59-17**	**KV-59-37**		2		**1.50**	38.1	**0.56**	14.2						417	KTH-2001	KTJ-70	KTD-118
D	**KV-59-18**	**KV-59-38**		2	Polarized	**1.61**	40.9	**0.56**	14.2						408	KTH-2001	KTJ-72	KTD-69
G-1	**KV-59-15**	**KV-59-23**		2	Crimp Contact	**1.50**	38.1	**0.56**	14.2						417	KTH-2002	KTJ-70	KTD-36
G-1	**KV-59-16**	**KV-59-20**		2	Polarized	**1.61**	40.9	**0.56**	14.2						408	KTH-2002	KTJ-72	KTD-70

PLUGS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION

G-1	**KV-59-33**			3		**1.53**	38.9	**0.56**	14.2						417	KTH-2062	KTJ-70	KTD-36

JACKS – CONVENTIONAL CONSTRUCTION

DE	**KV-39-01**			4		**1.47**	37.3	**0.50**	12.7						1001			
G	**UG-1016A/U**	**KV-39-10**		4		**1.47**	37.3	**0.50**	12.7						1001			

PANEL JACKS – CONVENTIONAL CONSTRUCTION

DE	**KV-19-13**			5	Rear Mount	**1.50**	38.1	**0.77**	19.6	**0.09**	2.3	**0.56**	14.2	A	1001			
G	**UG-961A/U**			5	Rear Mount	**1.50**	38.1	**0.77**	19.6	**0.09**	2.3	**0.56**	14.2	A	1001			

BULKHEAD RECEPTACLES
PANEL RECEPTACLES
ADAPTERS WITHIN SERIES

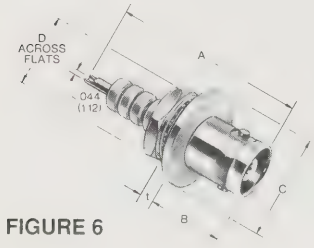


FIGURE 6

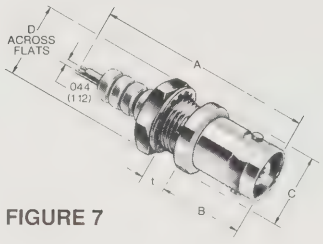


FIGURE 7

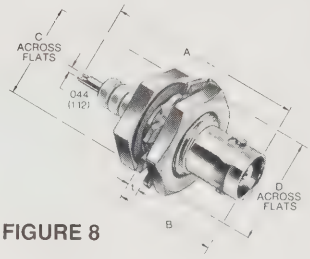


FIGURE 8

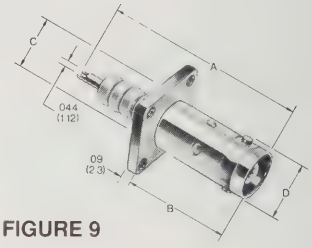


FIGURE 9

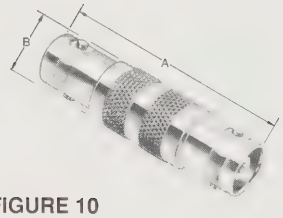


FIGURE 10

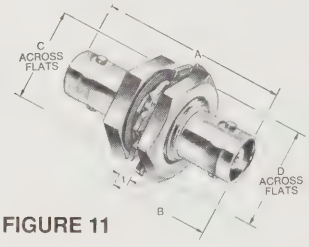


FIGURE 11

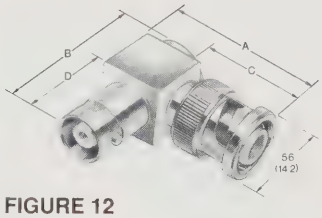


FIGURE 12

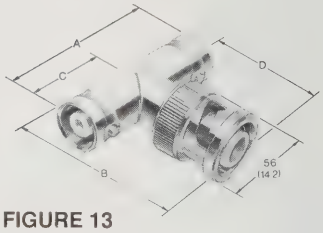
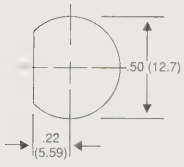
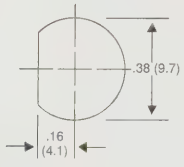


FIGURE 13



MTG. HOLE A



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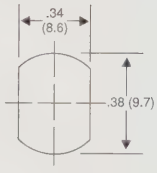

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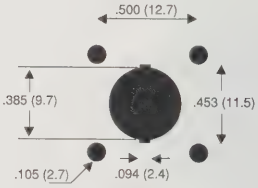


MTG. HOLE D

BULKHEAD RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
KV-79-10	KV-79-14		8		Polarized, Rear Mount	1.53	38.9	0.77	19.6	0.69	17.5	0.75	19.1	0.310	7.9	A
KV-79-11	KV-79-27		6		Front Mount	1.42	36.1	0.47	11.9	0.69	17.5	0.50	12.7	0.112	2.8	B
KV-79-16	KV-79-15		7		Front Mount	1.69	42.9	0.59	15.0	0.58	14.7	0.50	12.7	0.234	5.9	C
	KV-79-29		6		Polarized, Front Mount	1.54	39.1	0.51	13.0	0.50	12.7	0.50	12.7	0.182	4.6	B

PANEL RECEPTACLES

KV-79-03	KV-79-13		9		Polarized	1.53	38.9	0.81	20.6	0.32	8.1	0.44	11.2			D
UG-931/U	KV-79-12		9			1.43	36.3	0.63	16.0	0.32	8.1	0.44	11.2			D

ADAPTERS WITHIN SERIES

KV-99-03			12	Plg-Jck		1.36	34.5	1.11	28.2	1.11	28.2	0.80	20.3			
KV-99-16	KV-99-24		12	Plg-Jck	Plug Polarized	1.34	34.0	1.38	35.1	1.09	27.7	1.06	26.9			
	KV-99-53		13	Jck-Plg-Jck	Contacts Gold Plate	1.28	32.5	1.14	29.0	0.64	16.3	0.92	23.4			
KV-99-45			11	Jck-Jck	Jack Standard to Jack Polarized	1.36	34.5	0.68	17.3	0.69	17.5	0.63	16.0	0.114	2.9	A
	KV-99-28		10	Jck-Jck	Center Contact Gold Plate	1.58	40.1	0.44	11.2							

PLUGS / BULKHEAD JACKS
BULKHEAD RECEPTACLES
ADAPTERS WITHIN SERIES

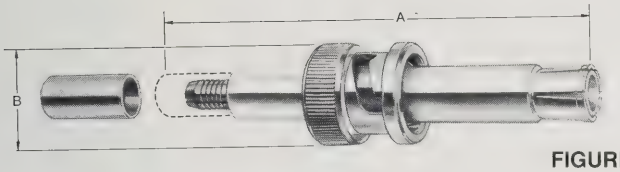


FIGURE 1

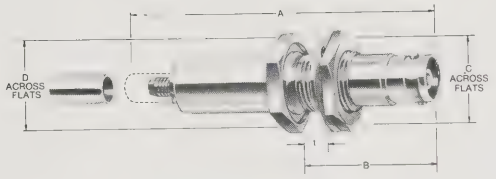


FIGURE 2

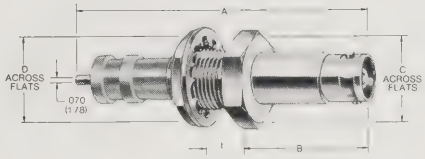


FIGURE 3

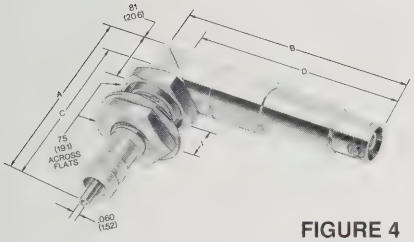
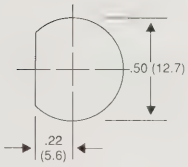


FIGURE 4



MTG. HOLE A

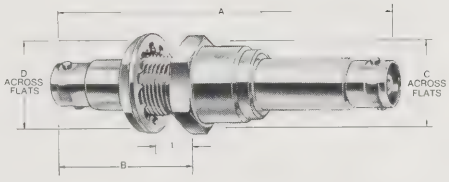


FIGURE 5

PLUGS – K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO. TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
RG-58C/U	**1065-1**	1		**2.71**	68.8	**0.56**	14.2								474	KTH-2001	KTJ-86	KTD-128
LASL Type C-9Y19503	**1065-2**	1	Test Voltage – Note 1	**2.71**	68.8	**0.56**	14.2								419	KTH-2001	KTJ-71	KTD-68
LASL Type C–9Y19503	**1065-3**	1	Rexolite Ins., Test Vltg. – Note 1	**2.71**	68.8	**0.56**	14.2								474	KTH-2001	KTJ-86	KTD-128
BULKHEAD JACKS – K-GRIP, JR. CONSTRUCTION																		
RG-58C/U	**1062-1**	2	Rear Mounting	**2.89**	73.4	**1.24**	31.5	**0.75**	19.1	**0.75**	19.1	**0.43**	10.9	A	484	KTH-2001	KTJ-69	KTD-194
LASL Type C-9Y19503	**1062-2**	2	Rear Mtg., Test Vltg. – Note 1	**2.89**	73.4	**1.24**	31.5	**0.75**	19.1	**0.75**	19.1	**0.43**	10.9	A	484	KTH-2001	KTJ-69	KTD-194
LASL Type C-9Y19503	**1062-3**	2	Rexolite Ins., Rear Mtg., Test Vltg., Note 1	**2.89**	73.4	**1.24**	31.5	**0.75**	19.1	**0.75**	19.1	**0.43**	10.9	A	484	KTH-2001	KTJ-69	KTD-194
BULKHEAD RECEPTACLES																		
	1060-1	4	Right Angle, Frnt. Mtg., Test Vltg., Note 1	**2.28**	57.9	**2.53**	64.3	**1.97**	50.0	**2.19**	55.6	**0.28**	7.1	A				
	1064-1	3	Front Mounting	**2.50**	63.5	**1.08**	27.4	**0.75**	19.1	**0.75**	19.1	**0.28**	7.1	A				
	1064-2	3	Front Mtg., Test Vltg., Note 1	**2.50**	63.5	**1.08**	27.4	**0.75**	19.1	**0.75**	19.1	**0.28**	7.1	A				
	1064-3	3	Front Mtg., Rexolite, Internally Pressurized – O-Ring Seals	**2.50**	63.5	**1.08**	27.4	**0.75**	19.1	**0.75**	19.1	**0.28**	7.1	A				
ADAPTERS WITHIN SERIES																		
	1069-1	5	Pressurized O-Ring Seals	**3.13**	79.5	**1.27**	32.3	**0.75**	19.1	**0.75**	19.1	**0.41**	10.4	A				

Note 1 — Test Voltage 20 KV DC at Sea Level, 15 KV DC at 8500 feet.

PLUGS
BULKHEAD JACKS
BULKHEAD RECEPTACLES
ADAPTERS WITHIN SERIES

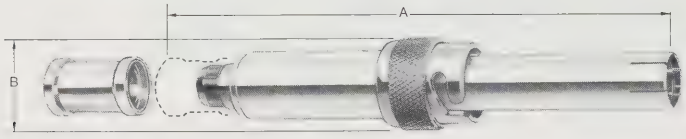


FIGURE 1

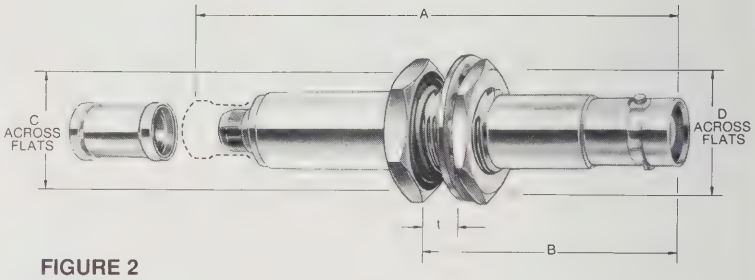


FIGURE 2

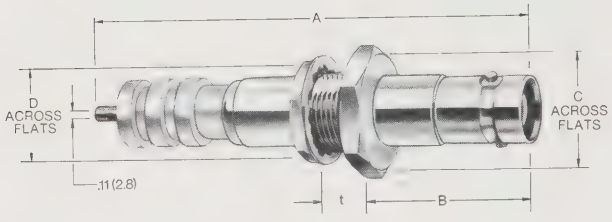


FIGURE 3

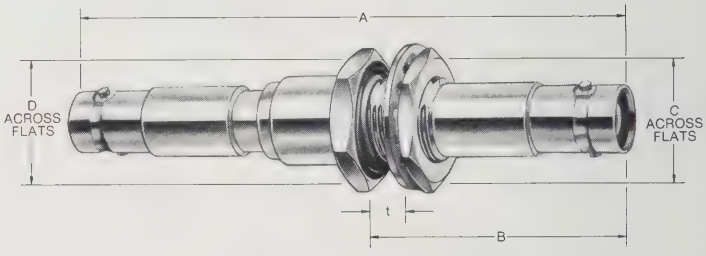
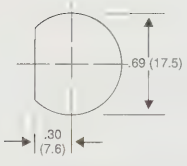
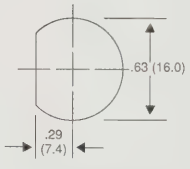


FIGURE 4



MTG. HOLE A



MTG. HOLE B

PLUGS –WEATHERPROOF K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	CABLING MTG. HOLE	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
RG-213/U	**1765-1**	1		**4.52**	114.8	**0.75**	19.1								475	KTH-1078	KTJ-124	KTD-179
BULKHEAD JACKS – WEATHERPROOF K-GRIP, JR. CONSTRUCTION																		
RG-213/U	**1762-1**	2	Rear Mounting	**4.29**	109.0	**2.08**	52.8	**1.00**	25.4	**1.00**	25.4	**0.43**	10.9	A	475	KTH-1078	KTJ-124	KTD-179
BULKHEAD RECEPTACLES																		
	1764-1	3	Front Mtg., Pressurized O-Ring Seals	**3.91**	99.3	**1.39**	35.3	**0.94**	23.9	**0.75**	19.1	**0.36**	9.1		B			
ADAPTERS WITHIN SERIES																		
	1769-1	4	Pressurized O-Ring Seals	**4.75**	120.7	**2.08**	52.8	**1.00**	25.4	**1.00**	25.4	**0.43**	10.9	A				

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

LC series RF connectors are large size high voltage threaded coupling connectors that accommodate large size coaxial cables from .730" to 1.2" OD. They are 50 ohm constant impedance connectors with a frequency range of 0 to 1 GHz and are weatherproof. They have a voltage rating of 5000 volts rms or 10,000 volts rms depending on the cable preparation. With plugs such as UG-154A/U for RG-17/U and RG-18/U, for operation at the lower voltage rating (5000 vrms), the cable dielectric is butted flush aainst the dielectric in the mating connector. For high voltage (10,000 vrms) operation, a counterboring operation is performed on the end of the cable dielectric with special tool TL-326/U.

For cables RG-19/U and RG-20/U, the connectors listed are rated for the higher voltage, consequently, a counterboring operation on the end of the dielectric in plug UG-156A/U must always be performed with special tool TL-325/U. Dow Corning No. 4 ignition sealing compound, or equivalent, should always be applied to the mating dielectric surfaces of all these connectors to reduce corona and ensure maximum voltage operation.

It is advised that the notes for these connectors be read carefully to determine proper mateability, since improved versions generally do not mate with older versions. Also note that there are two LC sizes, referred to as large and small, with different mating thread sizes. LC connectors are covered by applicable sections of MIL-C-3650.

LT series RF connectors are similar to but not interchangeable with the LC series connectors. They are designed for use with RG-117/U and RG-118/U high temperature coaxial cables. They are 50 ohm constant impedance connectors with a frequency range of 0 to 1 GHz and are weatherproof. Voltage rating is 5000 volts rms. LT connectors are covered by applicable sections of MIL-C-26637.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	0 to 1 GHz
Voltage Rating	
LC	5000 volts rms 10,000 volts rms with counterbored dielectric and Dow Corning No. 4 ignition sealing compound, or equivalent.
LT	5000 volts rms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Rexolite Insulators: –67°F to +185°F (–55°C to + 85°C) Polyethylene Insulators: –67°F to +185°F (–55°C to + 85°C) Connectors using the cable as contact and insulator: temperature rating of cable.

MECHANICAL

Mating	
LC Small	1-1/4 – 18 threaded coupling
LC Large	1-3/4 – 16 threaded coupling
LT	1-1/4 – 18 threaded coupling

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Brass, QQ-B-626, Alloy 360, 1/2 hard
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	1. PTFE, ASTM, D1457 2. Rexolite 1422, MIL-P-77 Type E-2 3. Polyethylene, High Density, MIL-P-22748, Class B, Grade 5
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

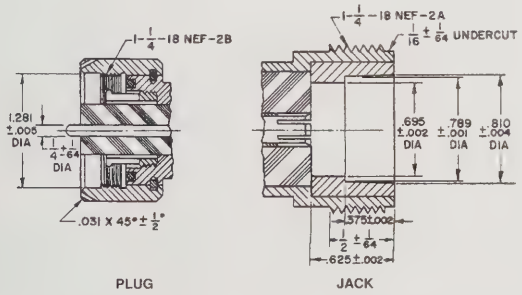
FINISHES

Contacts	.0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment.
Bodies & Fittings	.0002" (.005mm) min. silver plate QQ-S-365A plus TR-4® electrolytic chromate treatment.

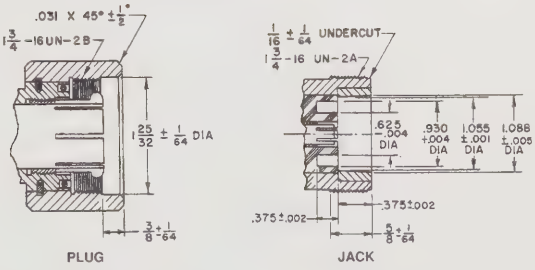
Specifications are typical and may not apply to all connectors.

INTERFACE

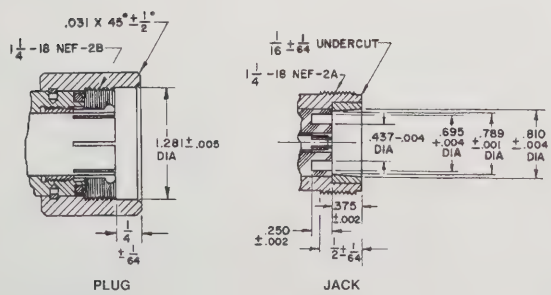
SMALL LC STANDARD



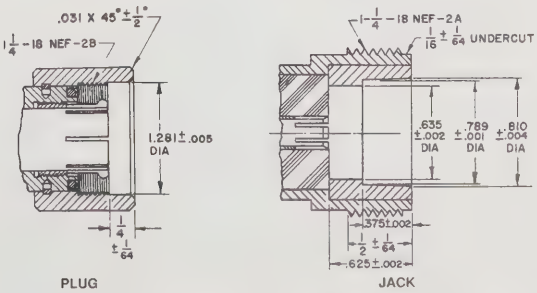
LARGE LC



SMALL LC HIGH VOLTAGE



LT



PLUGS / JACKS / RECEPTACLES

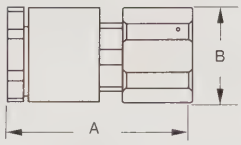


FIGURE 1

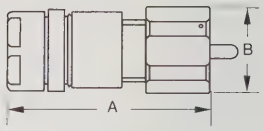


FIGURE 2

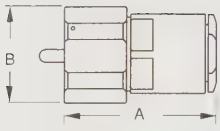


FIGURE 3

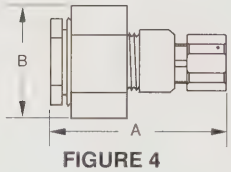


FIGURE 4

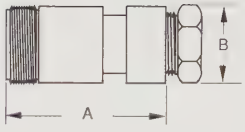


FIGURE 5

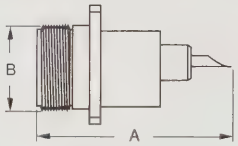
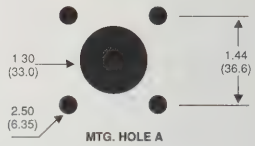


FIGURE 6



PLUGS

CABLE GROUP	KINGS PART NO. SILVER FINISH	CONNECTOR TYPE	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	DIELEC. MATERIAL	MTG. HOLE
RG-17, 18, 218, 219/U	**UG-154/U**	LC – Small	1	Mates with UG-155, -208, -216, -287, and -352/U; may be used with UG-155B, -208B, -216B, -287, or -352B/U; See notes 1, 2, 3.	**3.2**	81.3	**1.63**	41.4	Cable	
RG-17, 18, 218, 219/U	**UG-154A/U**	LC – Small	2	Mates with UG-155B/U, -208B/U, -216B, -278B, and -352B/U; will not mate with UG-155, -208, -216, -287, or -352/U; See notes 1 and 2.	**3.5**	88.9	**1.63**	41.4	Cable	
RG-17, 18, 218/U	**UG-1258/U**	LC – Small	3	Similar to UG-154A/U except modified for use with unarmored cables.	**2.6**	66.0	**1.63**	41.4	Cable	
RG-117, 118 211, 228/U	**UG-532/U**	LT	1		**3.03**	77.0	**1.63**	41.4	Cable	
RG-117, 118 211, 228/U	**UG-532A/U**	LT	1		**3.03**	77.0	**1.63**	41.4	Cable	
RG-19, 20, 220, 221/U	**UG-156/U**	LC – Large	1	Mates with UG-157/U, and -219/U; may be used with UG-157B/U and -219B/U. See note 3.	**3.2**	81.3	**2.1**	53.3	Cable	
RG-19, 20, 220, 221/U	**UG-156A/U**	LC – Large	1	Mates with UG-157B/U, and -219B/U; will not mate with UG-157/U or -219/U.	**3.2**	81.3	**2.1**	53.3	Cable	
RG-85, 85A/U	**UG-1179/U**	LC – Small	4	Includes Center Contact; Incorporates a cable clamp for use with RG-85/U.	**5.13**	130.3	**3.0**	76.2	Cable	
RG-189/U, 7/8" Styrflex	**UG-1189/U**	LC – Small	3	Includes Center Contact	**2.5**	63.5	**1.63**	41.4	Polyethelene	
RG-218, 219/U	**UG-154B/U**	LC – Small	2	Includes Center Contact	**3.5**	88.9	**1.63**	41.4	Teflon	

JACKS

RG-82/U	**UG-286/U**	LC – Small	5	Female Center Contact mates with RG-17/U, RG-18/U or equivalent male contacts.	**2.63**	66.8	**1.13**	28.7	Teflon	

RECEPTACLES

	UG-352/U	LC – Small	6	Mates with UG-154/U and UG-216/U; may be used with UG-154A/U and -216B/U. See note 3.	**2.25**	57.2	**1.25**	31.8	Teflon	A
	UG-352A/U	LC – Small	6	Mates with UG-154A/U and UG-216B/U; will not mate with UG-154/U or -216/U.	**3.06**	77.7	**1.25**	31.8	Rexolite	A
	UG-352B/U	LC – Small	6	Mates with UG-154A/U and UG-216B/U; will not mate with UG-154/U or -216/U.	**3.06**	77.7	**1.25**	31.8	Rexolite	A

ADAPTERS WITHIN SERIES

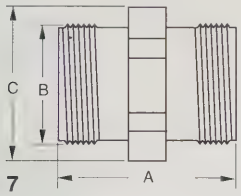


FIGURE 7

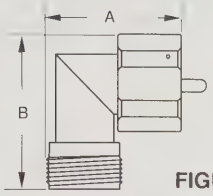


FIGURE 8

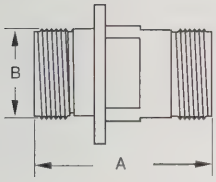


FIGURE 9

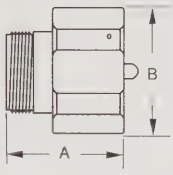


FIGURE 10

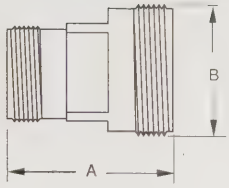
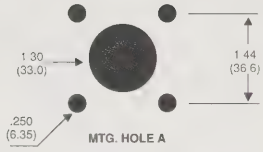


FIGURE 11



ADAPTERS WITHIN SERIES

KINGS PART NO. SILVER FINISH	FIG. NO.		ADAPTER ENDS	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	DIELEC. MATERIAL	MTG. HOLE
UG-155/U	7	LC	Jack-Jack	Mates with UG-154/U and -208/U; may be used with UG-154A/U and -208B/U; See note 3.	**2.25**	57.2	**1.25**	31.8	**1.5**	38.1	Polyethylene	
UG-155B/U	7	LC	Jack-Jack	Mates with UG-154A/U and -208B/U; will not mate with UG-154/U or -208/U.	**2.25**	57.2	**1.5**	38.1	**1.63**	41.4	Polyethylene	
UG-157/U	7	LC	Jack-Jack	Mates with UG-156/U and -219/U; may be used with UG-156A/U or -219B/U. See note 3.	**2.5**	63.5	**1.75**	44.5	**2.0**	50.8	Polyethylene	
UG-157B/U	7	LC	Jack-Jack	Mates with UG-156A/U and -219B/U; will not mate with UG-156/U or -219/U.	**2.5**	63.5	**1.75**	44.5	**1.88**	47.8	Polyethylene	
UG-208/U	8	LC	Plug-Jack	Right Angle, Mates with UG-154/U and -155/U; may be used with UG-154A/U and -155B/U. See note 3.	**2.24**	56.9	**2.6**	66.0			Polyethylene	
UG-208B/U	8	LC	Plug-Jack	Right Angle, Mates with UG-154A/U and -155B/U; will not mate with UG-154/U or -155/U.	**2.44**	62.0	**2.6**	66.0			Polyethylene	
UG-215/U	7	LC	Jack-Jack		**2.5**	63.5	**1.28**	32.5			Polyethylene	
UG-216/U	8	LC	Plug-Jack	Right Angle, Mates with UG-154/U, -287/U and -352/U. May be used with UG-154A/U, -257B/U and UG-352B/U. See note 3.	**2.34**	59.4	**2.6**	66.0			Polyethylene	
UG-216B/U	8	LC	Plug-Jack	Right Angle, Mates with UG-154/AU, -287/BU and -352/BU; will not mate with UG-154/U, -257/U or UG-352/U.	**2.24**	56.9	**2.6**	66.0			Polyethylene	
UG-219/U	8	LC	Plug-Jack	Right Angle, Mates with UG-156/U and -157/U. May be used with UG-156A/U and -157B/U. See note 3.	**3.5**	88.9	**2.9**	73.7			Polyethylene	
UG-219B/U	8	LC	Plug-Jack	Right Angle, Mates with UG-156/U and -157/U; will not mate with UG-156/U or -157/U.	**3.5**	88.9	**2.9**	73.7			Polyethylene	
UG-220/U	10	LC	Plug-Jack	Connects UG-154A/U to UG-157B/U.	**1.9**	48.3	**2.1**	53.3			Polyethylene	
UG-240/U	11	LC	Sm Jck/Lg Jck	Connects UG-154A/U (Undercut) to UG-156A/U.	**2.25**	57.2	**1.75**	44.5			Polyethylene	
UG-287/U	9	LC	Jack-Jack	Mates with UG-154/U, -216/U, and -352/U. May be used with UG-154A/U, -216B/U and -352B/U. See note 3.	**2.5**	63.5	**1.25**	31.8			Polyethylene	A
UG-287B/U	9	LC	Jack-Jack	Mates with UG-154A/U, -216B/U and -352B/U; will not mate with UG-154/U, -216/U or -352/U.	**2.5**	63.5	**1.25**	31.8			Polyethylene	A
UG-533/U	7	LT	Jack-Jack		**2.5**	63.5	**1.28**	32.5			Teflon	
UG-533B/U	7	LT	Jack-Jack		**2.5**	63.5	**1.25**	31.8			Teflon	
UG-534B/U	8	LT	Plug-Jack	Right Angle	**2.28**	57.9	**2.56**	65.0			Teflon	

NOTES: 1. Counterboring tools TL-325/U and TL-326/U. 2. Spanner wrenches TL-322/U and TL-323/U.
3. Female center contact designed to mate with .195 OD male contact but will also make contact with .188 OD male pin.

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

KM Series connectors are subminature bayonet lock coupling connectors for quick connect and disconnect. They are used with miniature and subminiature coaxial cables and are non-weatherproof. They are non-constant impedance connectors recommended for use up to 500 MHz. The interface of the MB connector differs from most of the other connector series in that the MB plug has a female center contact, and the MB jack has a male contact.

CABLE GROUPS — RG/U, M17		
A		178, 178A, 178B, 196, 196A, M17/93-RG178, M17/93-00001
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001, M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
C	C-1	122, M17/54-RG122
	C-2	180, 180A, 180B, 195, 195A, M17/95-RG180, M17/137-00001
	C-3	Essex 21-597, Belden 8218
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*, 55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59, M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71

*For these cables, crimping the center contact is not recommended when crimp contact is indicated

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 500 MHz
Voltage Rating	500 volts rms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Nylon Insulators: –67°F to +300°F (–55°C to +149°C)
Hermetic Seals	Leakage shall not exceed 1 x 10^{-7} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	2 stud bayonet coupling Plug – female contact Jack – male contact

Specifications are typical and may not apply to all connectors.

MATERIAL

Except as noted in connector listings

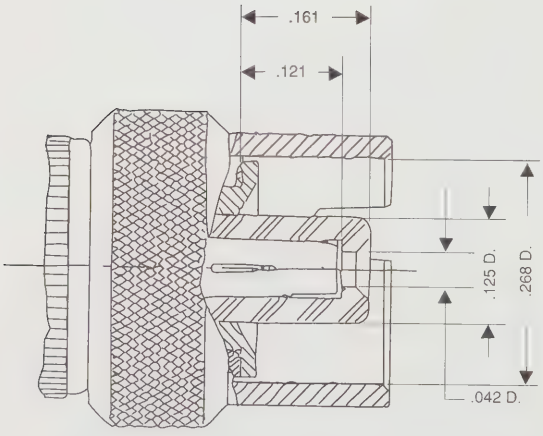
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	1. PTFE, ASTM D1457 2. Nylon Type FM 10001
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

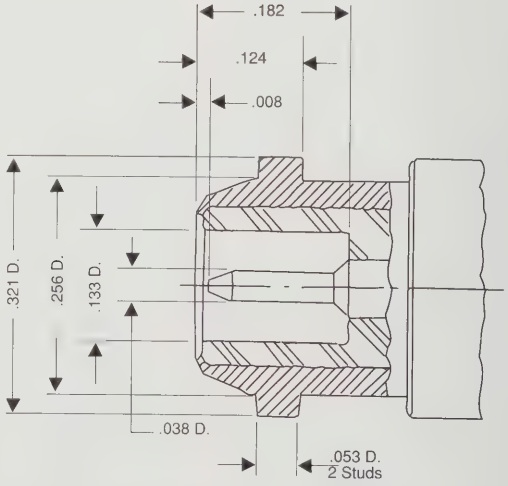
Contacts	1. .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment. 2. .00005" (.00125 mm) min. hard gold plate, MIL-G-45204B.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus TR-4® electrolytic chromate treatment. 2. TR-5® Kings tarnish resistant alloy electro-deposit finish.

INTERFACE

PLUG



JACK



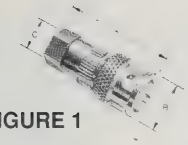


FIGURE 1

FIGURE 2

FIGURE 3

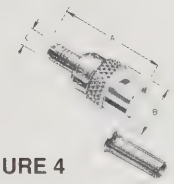


FIGURE 4

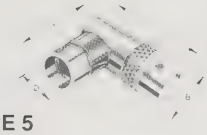


FIGURE 5

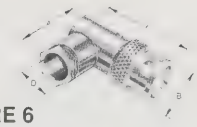


FIGURE 6

FIGURE 7

FIGURE 8

FIGURE 9

FIGURE 10

PLUGS — CONVENTIONAL CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER		FIG. NO.	NOTES	DIMENSIONS						CABLING			
					A		B		C					
	SILVER FINISH	TR-5 FINISH			in	mm	in	mm	in	mm	CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
A	**KM-51-07**		1		**0.70**	17.8	**0.38**	9.7	**0.12**	3.1	R			
B	**KM-51-08**		1		**0.75**	19.1	**0.38**	9.7	**0.16**	4.1	3001			
C	**KM-59-11**		1		**0.75**	19.1	**0.38**	9.7	**0.172**	4.4	R			
C	**KM-59-12**	**KM-59-38**	2		**0.75**	19.1	**0.38**	9.7	**0.16**	4.1	3001			
DE	**KM-59-19**		1		**0.70**	17.8	**0.38**	9.7	**0.22**	5.6	2801			
G	**KM-51-03**		1		**0.83**	21.1	**0.38**	9.7	**0.25**	6.4	2603			
G	**KM-59-28**		2		**0.83**	21.1	**0.38**	9.7	**0.25**	6.4	2603			
PLUGS — K-GRIP JR., CONSTRUCTION														
B	**KM-59-09**	**KM-59-10**	3		**0.86**	21.8	**0.38**	9.7	**0.16**	4.1	421	KTH-2023	KTJ-38	
B		**KM-59-45**	4		**1.05**	26.7	**0.38**	9.7	**0.11**	2.8	426	KTH-2011		
C	**KM-59-17**	**KM-59-25**	3		**1.05**	26.7	**0.38**	9.7	**0.17**	4.3	440	KTH-2007	KTJ-85	KTD-127
D		**KM-59-36**	3	Crimp Contact	**1.02**	25.9	**0.38**	9.7	**0.22**	5.6	468	KTH-2027	KTJ-117	KTD-208
G		**KM-59-23**	3		**1.04**	26.4	**0.38**	9.7	**0.26**	6.6	435	KTH-2002		
ANGLE PLUGS — CONVENTIONAL CONSTRUCTION														
B	**KM-51-06**		5		**0.73**	18.5	**0.38**	9.7	**0.82**	20.8	R			
E	**KM-59-35**		6		**0.68**	17.3	**0.38**	9.7	**0.82**	20.8	R			
G	**KM-51-04**		5		**0.82**	20.8	**0.38**	9.7	**0.82**	20.8	2604			
ANGLE PLUGS — K-GRIP, JR. CONSTRUCTION														
B		**KM-59-47**	7	Bell Shaped Crimp Sleeve	**1.01**	25.7	**0.38**	9.7	**0.82**	20.8	487	KTH-2011	KTJ-110	KTD-207
C		**KM-59-50-M06**	8		**0.92**	23.4	**0.38**	9.7	**0.82**	20.8	414	KTH-2007	KTJ-152	KTD-205
JACKS														
B	**KM-39-03**		9	K-Grip Jr.	**0.88**	22.4	**0.31**	7.9	**0.16**	4.1	243A			
C	**KM-31-03**		10	Conventional	**0.72**	18.3	**0.31**	7.9	**0.16**	4.1	3101			
DE	**KM-31-04**		10	Conventional	**0.72**	18.3	**0.31**	7.9	**0.21**	5.1	2801			
G	**KM-31-02**		10	Conventional	**0.72**	18.3	**0.31**	7.9	**0.25**	6.4	2602			

R — Request from factory.

BULKHEAD JACKS
BULKHEAD RECEPTACLES

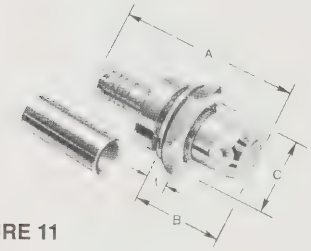


FIGURE 11

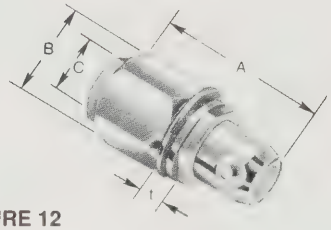


FIGURE 12

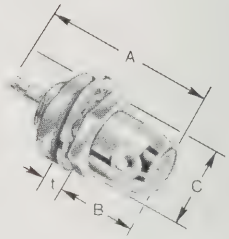


FIGURE 13

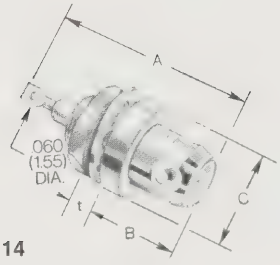


FIGURE 14

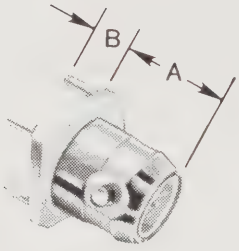
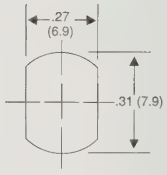
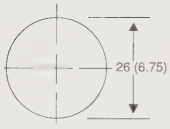


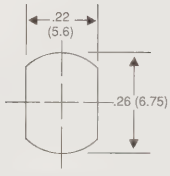
FIGURE 15



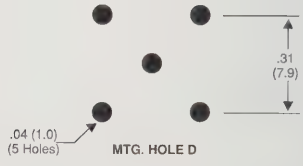
MTG. HOLE A



MTG. HOLE B



MTG. HOLE C



MTG. HOLE D

BULKHEAD JACKS

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
B	**KM-19-05**	**KM-19-06**	11	Crimp Construction, Rear Mount	**0.88**	22.3	**0.44**	11.2	**0.44**	11.2	**0.90**	2.3	A	421	KTH-2023
C	**KM-11-03**		12	Conventional Construction, Front Mount	**0.88**	22.2	**0.41**	10.4			**0.90**	2.3	B	R	
G	**KM-11-02**		12	Conventional Construction, Front Mount; Nylon Insulation	**0.97**	24.6	**0.41**	10.4			**0.90**	2.3	B	2601	

BULKHEAD RECEPTACLES

	KM-71-01	**KM-79-10**	13	Front Mount; Nylon Insulation	**0.69**	17.5	**0.30**	7.6	**0.41**	10.4	**0.130**	3.3	B		
	KM-71-02	**KM-79-17**	14	Front Mount, Hermetic Seal	**0.88**	22.2	**0.35**	9.1	**0.44**	11.2	**0.130**	3.3	B		
	KM-71-04	**KM-79-16**	13	Front Mount	**0.64**	16.3	**0.30**	7.6	**0.41**	10.4	**0.130**	3.3	C		
	KM-71-05		15	Printed Circuit Board Receptacle; Maximum Panel Thickness .125, .44" Sq. Flange	**0.45**	11.4	**0.125**	3.2					D		

R — request from factory.

TERMINATIONS AND ACCESSORIES
ADAPTERS WITHIN SERIES

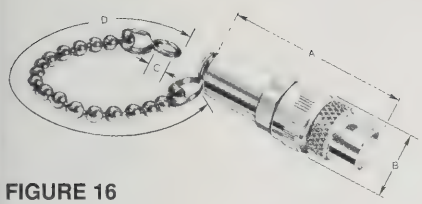


FIGURE 16

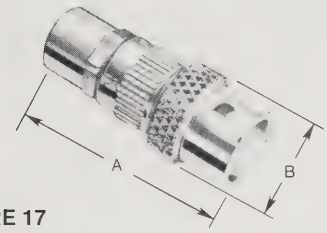


FIGURE 17

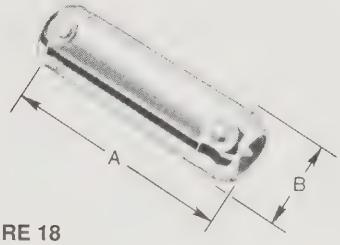


FIGURE 18

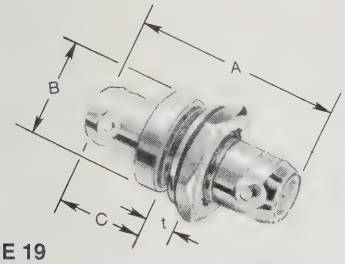


FIGURE 19

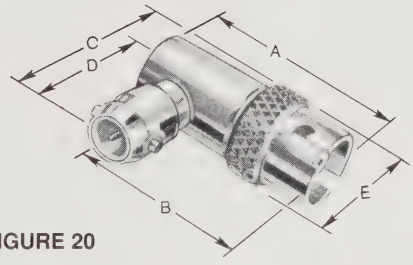


FIGURE 20

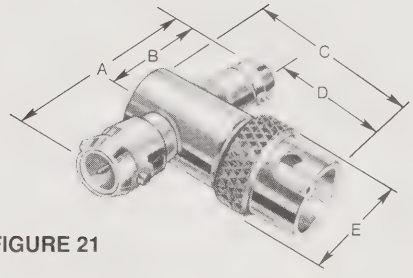


FIGURE 21

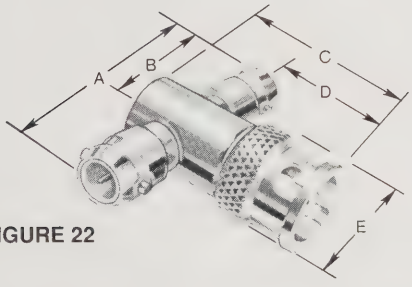
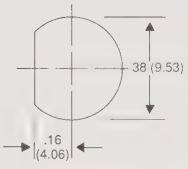


FIGURE 22



MTG. HOLE A

TERMINATIONS AND ACCESSORIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	DESCRIPTION	NOTES	DIMENSIONS							
						A		B		C		D	
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm
KM-81-02			16	Termination	51 ohm 5%, 1/2 watt	1.01	25.7	0.38	9.7	0.14	3.6	3.5	88.9
KM-81-03			16	Termination	75 ohm 5%, 1/2 watt	1.01	25.7	0.38	9.7	0.14	3.6	3.5	88.9
KM-81-04			16	Termination	91 ohm 5%, 1/2 watt	1.01	25.7	0.38	9.7	0.14	3.6	3.5	88.9
KM-81-06			17	Cap for Jacks		0.92	23.5	0.38	9.7				

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS											
						A		B		C		D		E		t		MTG. HOLE
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
KM-91-06			19	Jack-Jack	Hermetic Seal, Bulkhead	0.94	23.9	0.60	15.2	0.35	8.9					0.150	3.8	A
KM-91-07			18	Jack-Jack	Teflon Insulation	0.86	21.8	0.31	7.9									
KM-91-08			21	Jck-Plg-Jck	Teflon Insulation	1.03	26.2	0.52	13.0	0.81	20.6	0.64	16.3	0.38	9.7			
KM-91-10			20	Plug-Jack		0.81	20.6	0.65	16.5	0.70	17.8	0.51	13.0	0.38	9.7			
KM-99-10-MC7			22	Jck-Plg-Jck		1.03	26.2	0.52	13.0	0.81	20.6	0.66	16.5	0.38	9.7			

TRB / BNC
DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

The TRIAXIAL/DATA BUS group of connectors listed in this section consists of four basic series:

1. TRB — in accordance with MIL-C-49142, and BNC Type — a similar non-mil spec version. TRB has a 3 stud bayonet coupling; BNC Type has 2, 3, or 4 stud bayonet coupling. Both are used with twinaxial and triaxial cables.
2. TRT — in accordance with MIL-C-49142, and TNC Type — a similar non-mil spec version. Both are used with twinaxial and triaxial cables and have threaded coupling.
3. SDB — a subminiature bayonet and threaded coupling connector used with twinaxial cables.
4. MDB — a microminiature bayonet and threaded coupling connector used with twinaxial cables.

TRIAXIAL/DATA BUS connectors are used where shielding or isolation of the standard coaxial connector is insufficient, particularly in areas where the high harmonic content of digital pulses fall in the rf region, causing interference to other equipment and cables. They are widely used in the broadcast, medical, military, and nuclear electronic fields. They are used in computer data distribution systems, commercial coax data bus systems, military aircraft data bus distribution systems in guidance, control and navigation applications, and in naval ship digital data bus systems.

TRB/BNC

TRB series connectors are triaxial connectors designed to meet MIL-C-49142 and have a 3 stud bayonet coupling. They are used with twinaxial and triaxial cables. They feature a new weatherproof taper grip construction which utilizes a metal-to-metal cable clamping with separate sealing components. With the clamping and sealing independent of each other, excellent results are obtained in both areas.

Items qualified to MIL-C-49142 are included in the listings. Many additional items are in the process of qualification, therefore contact the factory for qualification status of items that do not appear in the listings.

The BNC Type triaxial connector is a similar non-mil spec version of the TRB. It utilizes conventional and crimp cabling methods and has a 2, 3, or 4 stud bayonet coupling. TRB and BNC 3 stud types intermate.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 500 MHz
Voltage Rating	400 volts rms
Dielectric Withstanding Voltage	1200 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	
Center Contacts	2.0 milliohms
Intermediate Contacts	.5 milliohms
Outer Contacts	.5 milliohms

ENVIRONMENTAL

Temperature Range	–85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-1344 Method 2005.1, Test cond. III
Shock	MIL-STD-1344, Method 2004.1, Test cond. E
Corrosion (salt spray)	MIL-STD-202, Method 101, Test cond. B
Moisture Resistance	MIL-STD-1344, Method 1002
Hermetic Seals	Leakage rate shall not exceed 1 x 10^{-8} cc/sec of tracer gas at atmospheric pressure.

Specifications are typical for straight plug configurations designed to MIL-C-49142 and may not apply to all connectors.

MECHANICAL

Mating – TRB	3 stud bayonet coupling per MIL-C-49142 or MIL-STD-348 as applicable.
Cable Retention	
.200–.325 OD cable	40 lbs. min.
Center Contact Retention	6 lbs. min, axial force
Connector Durability	500 cycles

MATERIAL

Except as noted in connector listings

Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium, QQ-C-530, Cond. HT
Intermediate Male Contacts	Beryllium, QQ-C-530, Cond. HT
Intermediate Female Contacts	Beryllium, QQ-C-530 Cond. HT
Insulators	1. PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

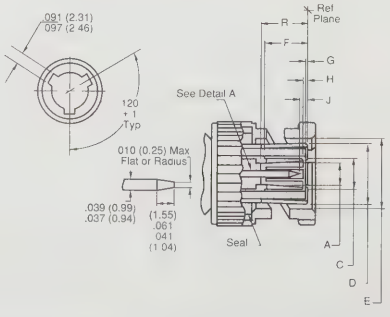
FINISHES

Center Contacts	.0001" (.0025 mm) min. hard gold plate, MIL-G-45204B
Intermediate Contacts	MIL-C-49142 items: .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment. Other items except as noted: .00005" (.00125 mm) min. hard gold plate, MIL-G-45204B.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

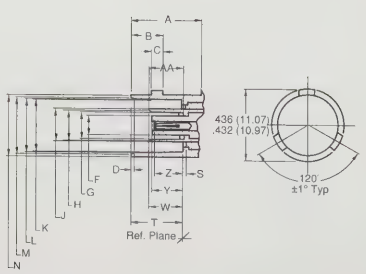
INTERFACE — Per MIL-C-49142 or MIL-STD-348 as applicable.

TRB PLUG

Ltr	Inches Min.	Inches Max.	Millimeters Min.	Millimeters Max.
A	.123	—	3.12	—
C	Gauge Test			
D	Gauge Test			
E	.385	.390	9.78	9.91
F	.213	.242	5.41	6.15
G	.001	—	0.03	—
H	.007	.033	0.18	0.84
J	.008	.042	0.20	1.07
R	.213	—	5.41	—



TRB JACK



Ltr	Inches Min.	Inches Max.	Millimeters Min.	Millimeters Max.
A	.414	—	10.52	—
AA	.206	.213	5.23	5.41
B	.204	.208	5.18	5.28
C	.075	.081	1.90	2.06
D	.015	.030	0.38	0.76
F	.117	.122	2.97	3.10
G	.169	.171	4.29	4.34
H	.178	.182	4.52	4.62
J	.195	.199	4.95	5.05
K	.319	.321	8.10	8.15
L	.327	.333	8.31	8.46
M	.346	.356	8.79	9.04
N	.378	.382	9.60	9.70
S	.001	—	0.03	—
T	.327	.335	8.31	8.51
W	.187	.213	4.75	5.41
Y	—	.213	—	5.41
Z	.165	.203	4.19	5.16

TRB/BNC — 3 STUD PLUGS

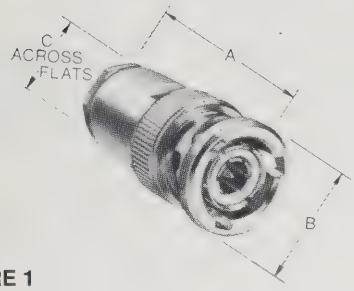


FIGURE 1

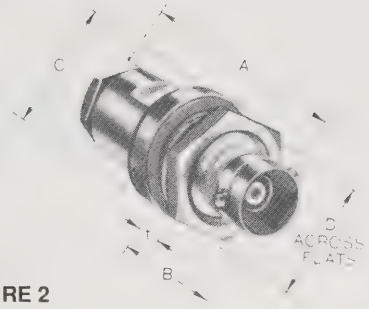


FIGURE 2

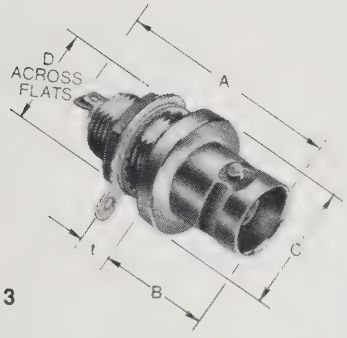


FIGURE 3

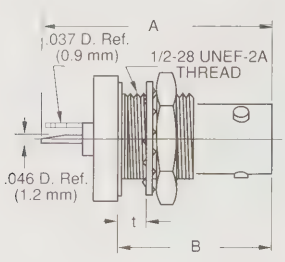
FIGURE 4

PLUGS — TRB/BNC – 3 Stud

CABLE GROUP	KINGS PART NUMBER: SILVER FINISH	KINGS PART NUMBER: TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS: A in	DIMENSIONS: A mm	DIMENSIONS: B in	DIMENSIONS: B mm	CABLING: CBL. TRIM CODE	CABLING: CRIMP DIE
380-10045-1	**1995-13-5**		M49142/03-0006	1	Weatherproof Taper Grip	**1.52**	35.6	**0.56**	14.2	3-391	
BELDEN 9272 RG-108/U		**1995-8-9**		1	Taper Grip	**1.26**	32.0	**0.56**	14.2	R	
D3-7619-5/336	**1995-10-5**		M49142/03-0003	1	Weatherproof Taper Grip	**1.65**	41.9	**0.56**	14.2	3-392	
D3-7619-5/338	**1995-12-5**		M49142/03-0004	1	Weatherproof Taper Grip	**1.65**	41.9	**0.56**	14.2	3-392	
DOD/DNA RF-21	**1995-9-5**			1	Taper Grip	**1.75**	44.5	**0.56**	14.2	R	
M17/45-RG108	**1995-11-5**		M49142/03-0007	1	Weatherproof Taper Grip	**1.52**	35.6	**0.56**	14.2	R	
M17/176-00002	**1995-14-5**		M49142/03-0008	1	Weatherproof Taper Grip	**1.52**	35.6	**0.56**	14.2	3-395	
M17/176-00002		**1995-16-102**		1	Monocrimp	**1.41**	35.8	**0.57**	14.5	3-400	KTH-2175
M17/177-00001	**1995-18-5**		M49142/03-0009	1	Weatherproof Taper Grip	**1.52**	35.6	**0.56**	14.2	3-391	
M17/178-00001	**1995-19-5**		M49142/03-0010	1	Weatherproof Taper Grip	**1.65**	41.9	**0.56**	14.2	3-392	
M17/179-00001	**1995-20-5**		M49142/03-0011	1	Weatherproof Taper Grip	**1.65**	41.9	**0.56**	14.2	3-392	
RG-22B/U		**1995-2-9**		1	Weatherproof Taper Grip	**1.26**	32.0	**0.75**	19.1	R	
TRF-58 M17/134-00001		**1995-3-9**		1	Conventional	**1.50**	38.1	**0.56**	14.2	1303	
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**1995-23-102**		1	Monocrimp	**1.41**	35.8	**0.57**	14.5	R	

R — request from factory.

TRB/BNC — 3 STUD
BULKHEAD JACKS / BULKHEAD RECEPTACLES



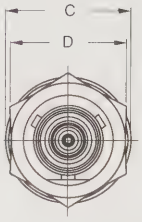
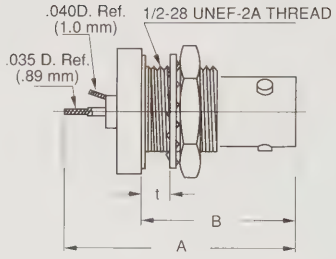


FIGURE 4A



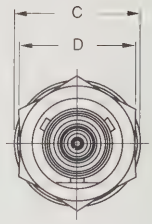
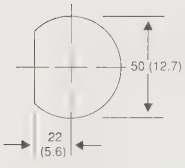
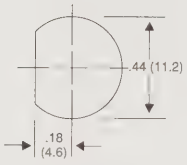


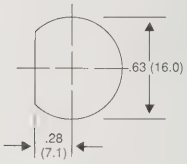
FIGURE 4B



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

BULKHEAD JACKS — TRB/BNC – 3 Stud

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS										MTG. HOLE	CABLING	
						A		B		C		D		t				
	SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm		CBL. TRIM CODE	CRIMP DIE
380-10045-1	**1992-10-5**		M49142/05-0005	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-391	
BELDEN 9272 M17/45-RG108		**1992-2-9**		2	Taper Grip	**1.31**	33.3	**0.68**	17.3	**0.69**	17.5	**0.63**	16.0	**0.116**	2.9	A	3-350	
D3-7619-5/338	**1992-9-5**		M49142/05-0004	2	Wthrprf. Taper Grip	**1.69**	42.9	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-392	
M17/45-RG108	**1992-8-5**		M49142/05-0007	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	R	
M17/134-00001	**1992-4-5**		M49142/05-0001	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-391	
M17/134-00002	**1992-3-5**		M49142/05-0002	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-391	
M17/176-00002	**1992-11-5**		M49142/05-0008	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-395	
M17/176-00002		**1992-12-102**		2	Monocrimp	**1.53**	38.9	**0.68**	17.3	**0.69**	17.5	**0.63**	16.0	**0.116**	3.0	A	3-400	
M17/177-00001	**1992-13-5**		M49142/05-0009	2	Wthrprf. Taper Grip	**1.54**	39.1	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-391	
M17/178-00001	**1992-14-5**		M49142/05-0010	2	Wthrprf. Taper Grip	**1.69**	42.9	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-392	
M17/179-00001	**1992-15-5**		M49142/05-0011	2	Wthrprf. Taper Grip	**1.69**	42.9	**0.81**	20.6	**0.69**	17.5	**0.63**	16.0	**0.242**	6.2	A	3-392	
RAYCHEM 10613 & 10614 GRUMMAN GC875TM 24H		**1992-16-102**		2	Monocrimp	**1.53**	38.9	**0.68**	17.3	**0.69**	17.5	**0.63**	16.0	**0.116**	2.9	A	R	

BULKHEAD RECEPTACLES — TRB/BNC – 3 Stud

		1994-1-9		3	Gnding. Lug, Frnt Mt.	**1.14**	29.0	**0.49**	12.5	**0.50**	12.7	**0.63**	16.0	**0.122**	3.1	B		
		1994-2-9		4	Isoltd. Grnd., Frnt. Mt.	**1.30**	33.0	**0.49**	12.5	**0.75**	19.1	**0.75**	19.1	**0.250**	6.4	C		
	1994-3-5		M49142/04-0004	4A	Rear Mount	**1.10**	27.9	**0.82**	20.8	**0.69**	17.5	**0.63**	16.0	**0.250**	6.4	A		
	1994-4-5		M49142/04-0005	4B	Rear Mount	**1.24**	31.5	**0.83**	21.1	**0.69**	17.5	**0.63**	16.0	**0.264**	6.7	A		
			M49142/04-0002		See M49142/04-0004													
			M49142/04-0003		See M49142/04-0005													

R — request from factory.

BNC — 2 STUD PLUGS

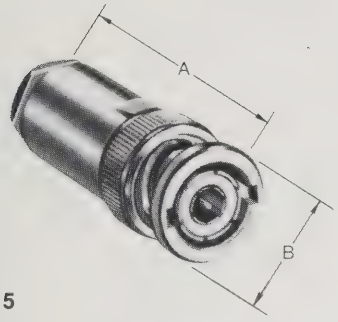


FIGURE 5

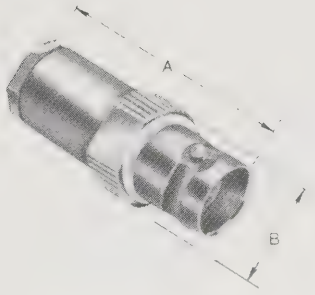


FIGURE 6

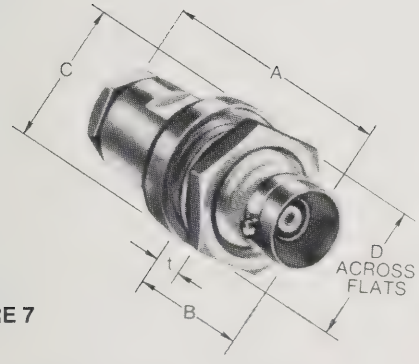


FIGURE 7

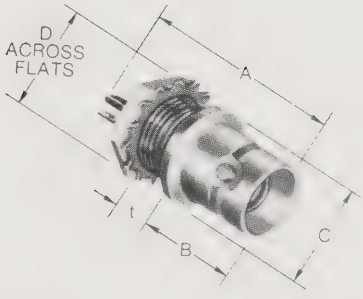


FIGURE 8

PLUGS — BNC 2 Stud

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
BELDEN 8232		**1965-16-9**		5	K-Grip	**1.83**	46.5	**0.56**	14.2	R	KTH-2133
BELDEN 8422	**1965-3**	**1965-3-9**		5	Conventional	**1.46**	37.1	**0.56**	14.2	2401	
BELDEN 8422		**1965-4-9**		5	Conventional	**1.67**	42.4	**0.56**	14.2	2401	
BELDEN 9272 RG-108/U		**1965-17-9**		5	K-Grip	**1.60**	40.6	**0.56**	14.2	R	KTH-2134
BELDEN 9272 RG-108/U		**1965-22-9**		5	Taper Grip	**1.26**	32.0	**0.56**	14.2	R	
ESSEX 21-204	**1965-2**	**1965-2-9**		5	Conventional	**1.46**	37.5	**0.56**	14.2	1301A	
MICRODOT 293-3922		**1965-8-9**		5	Conventional	**1.50**	38.1	**0.56**	14.2	1301	
MICRODOT 293-3930	**1965-1**	**1965-1-9**		5	Conventional	**1.50**	38.1	**0.56**	14.2	1301	
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**1965-23-102**		5	Monocrimp					R	
RAYCHEM 6726D5311	**1965-7**			5	Conventional	**1.50**	38.1	**0.56**	14.2	1301	
RAYCHEM 7524D5011 ITT BA6416A		**1965-12-9**		5	Conventional	**1.50**	38.1	**0.56**	14.2	1301	
RG-108/U	**1965-6**			5	Conventional	**1.48**	37.6	**0.56**	14.2	2401	
TIMES BL-1242 BELL & HOWELL 367863A		**1965-9-9**		5	K-Grip	**1.60**	40.6	**0.56**	14.2	R	KTH-2002
TIMES TRF-58	**1965-5**			5	Conventional	**1.50**	38.1	**0.56**	14.2	1301	

R — request from factory.

BNC — 2 STUD
JACKS / BULKHEAD JACKS / BULKHEAD RECEPTACLES

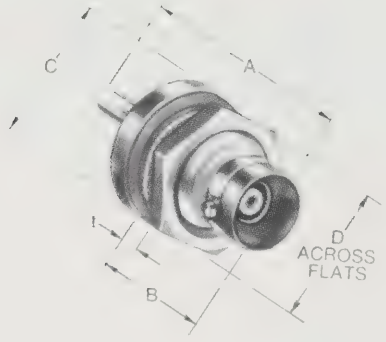


FIGURE 9

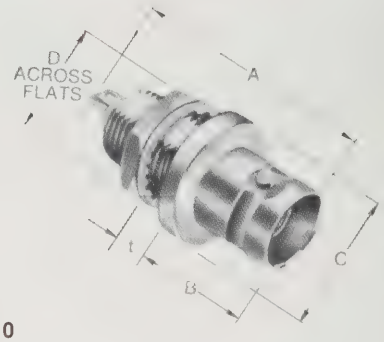
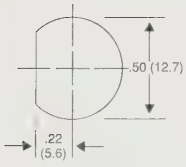
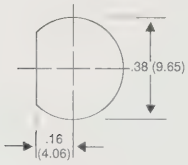


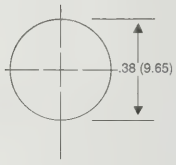
FIGURE 10



MTG. HOLE A



MTG. HOLE B



MTG. HOLE C

JACKS — BNC – 2 Stud

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE
RAYCHEM 7524D 5011 ITT BA6416A		**1963-1-9**	6	Conventional	**1.52**	38.6	**0.56**	14.2								1301

BULKHEAD JACKS — BNC – 2 Stud

ESSEX 21-204	**1962-2**		7	Conventional	**1.48**	37.6	**0.68**	17.3	**0.69**	17.5	**0.63**	17.5	**0.116**	3.0	A	1301A
MICRODOT 293-3930	**1962-1**		7	Conventional	**1.53**	38.9	**0.68**	17.3	**0.69**	17.5	**0.63**	17.5	**0.116**	3.0	A	1301
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**1962-6-102**	7	Monocrimp											A	

BULKHEAD RECEPTACLES — BNC – 2 Stud

		1964-1-9	8	Front Mount	**1.10**	27.9	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.253**	6.4	B	
		1964-2-9	8	Front Mount	**1.10**	27.9	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.253**	6.4	C	
		1964-3-9	9	Rear Mount	**1.10**	27.9	**0.82**	20.8	**0.69**	17.5	**0.63**	16.0	**0.253**	6.4	A	
		1964-4-9-M06	10	Hermetic Seal, Front Mount	**1.28**	32.5	**0.52**	13.2	**0.59**	15.0	**0.50**	12.7	**0.378**	9.6	B	

BNC — 4 STUD
PLUGS / BULKHEAD JACKS
TRB/BNC — ADAPTERS WITHIN SERIES

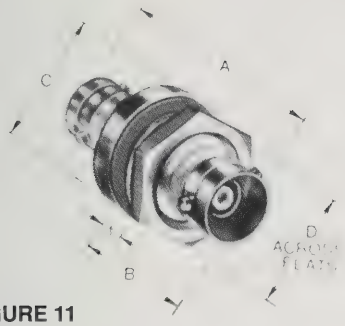


FIGURE 11

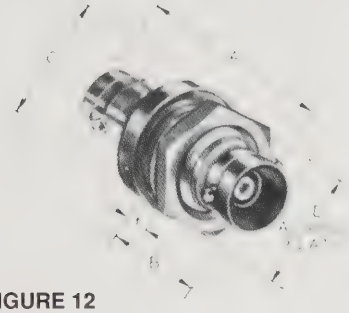


FIGURE 12

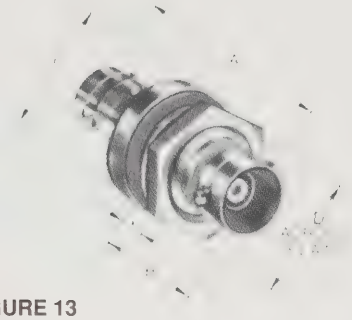


FIGURE 13

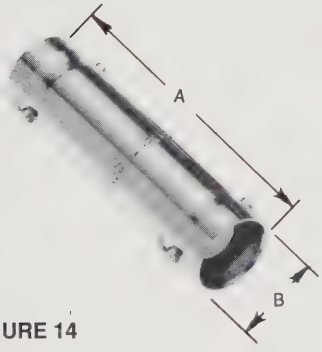
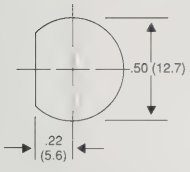
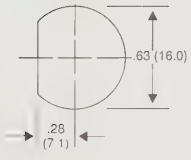


FIGURE 14



MTG. HOLE A



MTG. HOLE B

PLUGS — BNC 4 Stud

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
M17/176-00002		**2735-2-102**	NS		Monocrimp												3-400	KTH-2175
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**2735-3-102**	NS		Monocrimp													

BULKHEAD JACKS — BNC 4 Stud

M17/176-00002		**2732-1-102**	NS		Monocrimp									**0.116**	3.0	A	3-400	KTH-2175
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**2732-2-102**	NS		Monocrimp									**0.116**	3.0	A		

ADAPTERS WITHIN SERIES — TRB/BNC

	1999-1-4		11	3 Std.Jack-3 Std.Jck	Gold Plated	**1.35**	34.3	**0.74**	18.8	**0.73**	18.5	**0.56**	14.2	**0.163**	4.1	A		
		1999-2-9	12	3 Std.Jack-3 Std.Jck	Isolated Ground	**1.35**	34.3	**0.85**	21.6	**0.75**	19.1	**0.75**	19.1	**0.250**	6.4	B		
		1969-3-9	14	2 Std.Jack-2 Std.Jck		**1.35**	34.3	**0.39**	9.9									
		1999-4-9	13	3 Std.Jack-3 Std.Jck	Hermetic Seal; Isolated Ground	**1.35**	32.3	**0.75**	19.1	**0.87**	22.1	**0.75**	19.1	**0.164**	4.2	B		

t — Max. panel thickness.

TRT / TNC
DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

TRT series connectors are triaxial connectors designed to meet MIL-C-49142 and have a threaded coupling. They are used with twinaxial and triaxial cables. They feature a new weatherproof taper grip construction which utilizes a metal-to-metal cable clamping with separate sealing components. With the clamping and sealing components independent of each other, excellent results are obtained in both areas. Items qualified to MIL-C-49142 are included in the listings. Many additonal items are in the process of qualification, therefore contact the factory for qualification status of items that do not appear in the listings.

The TNC type triaxial connector is a similar non-mil spec version of the TRT. It utilizes conventional and crimp cabling methods. TRT and TNC type intermate.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 500 MHz
Voltage Rating	400 volts rms
Dielectric Withstanding Voltage	1200 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	
Center Contacts	2.0 milliohms
Intermediate Contacts	.5 milliohms
Outer Contacts	.2 milliohms

ENVIRONMENTAL

Temperature Range	–85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-1344 Method 2005.1, Test cond. III
Shock	MIL-STD-1344, Method 2004.1, Test cond. E
Corrosion (salt spray)	MIL-STD-202, Method 101, Test cond. B
Moisture Resistance	MIL-STD-1344, Method 1002
Hermetic Seals	Leakage rate shall not exceed 1 x 10^{-8} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	.4375-28 threaded coupling per MIL-C-49142 or MIL-STD-348 as applicable.
Cable Retention	
.200–.325 OD cable	40 lbs. min.
Center Contact Retention	6 lbs. min, axial force
Connector Durability	500 cycles

Specifications are typical for straight plug configurations designed to MIL-C-49142 and may not apply to all connectors.

MATERIAL

Except as noted in connector listings

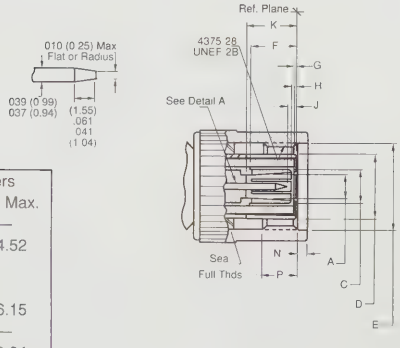
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium, QQ-C-530, Cond. HT
Intermediate Male Contacts	Beryllium, QQ-C-530, Cond. HT
Intermediate Female Contacts	Beryllium, QQ-C-530 Cond. HT
Insulators	1. PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

Center Contacts	.0001" (.0025 mm) min. hard gold plate, MIL-G-45204B
Intermediate Contacts	MIL-C-49142 items: .0002" (.005 mm) min. silver plate QQ-S-365A, plus TR-4® electrolytic chromate treatment. Other items except as noted: .00005" (.00125 mm) min. hard gold plate, MIL-G-45204B.
Bodies & Fittings	1. .0002" (.005mm) min. silver plate QQ-S-365A plus TR-4® electrolytic chromate treatment. 2. TR-5® – Kings tarnish resistant alloy electrodeposit finish.

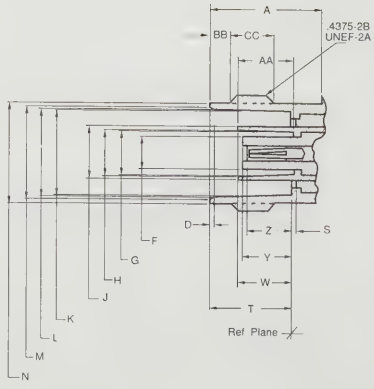
INTERFACE — Per MIL-C-49142 or MIL-STD-348 as applicable.

TRT PLUG



Ltr	Inches Min.	Inches Max.	Millimeters Min.	Millimeters Max.
A	.123	—	3.12	—
C	.172	.178	4.37	4.52
D	Gauge Test			
E	.440	—	11.18	
F	.213	.242	5.41	6.15
G	.001	—	0.03	—
H	.007	.033	0.18	0.84
J	.008	.042	0.20	1.07
K	.213	—	5.41	—
N	.063	—	1.60	—
P	.156	—	3.96	—

TRT JACK



Ltr	Inches Min.	Inches Max.	Millimeters Min.	Millimeters Max.
A	.414	—	10.52	—
D	.015	.030	0.38	0.76
F	.117	.122	2.97	3.10
G	.169	.171	4.29	4.34
H	.178	.182	4.52	4.62
J	.195	.199	4.95	5.05
K	.319	.321	8.10	8.15
L	.327	.333	8.31	8.46
M	.346	.356	8.79	9.04
N	.378	.382	9.60	9.70
S	.001	—	0.03	—
T	.327	.335	8.31	8.51
V	.213	—	5.41	—
W	.187	.213	4.75	5.41
Y	—	.213	—	5.41
Z	.165	.263	4.19	5.16
AA	.201	.213	5.23	5.41
BB	.068	.088	1.73	2.24
CC	.187	—	4.75	—

TRT/TNC
PLUGS / JACKS

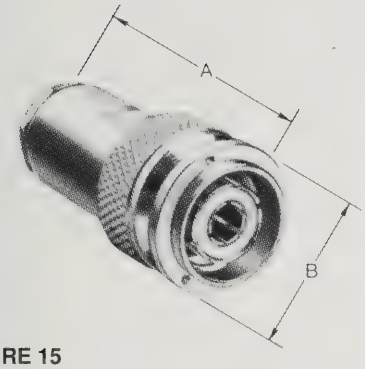


FIGURE 15

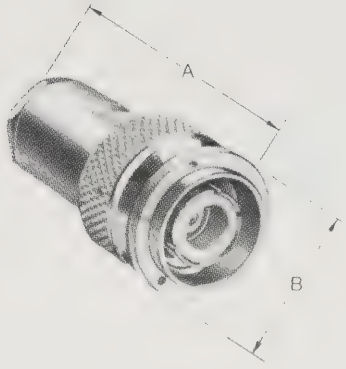


FIGURE 16

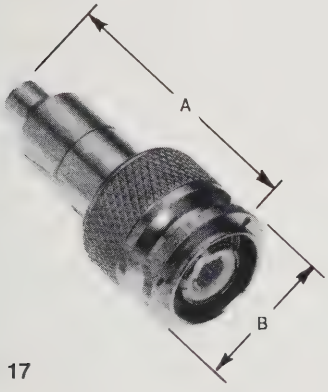


FIGURE 17

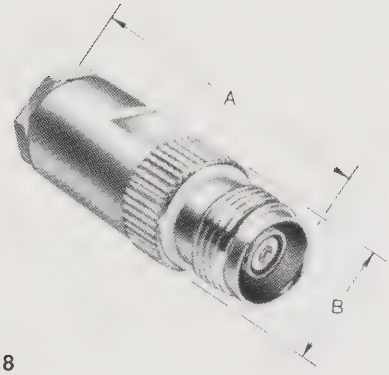


FIGURE 18

PLUGS — TRT/TNC

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
ESSEX 21-204	**1945-1**			15	Conventional, Wire Holes	**1.46**	37.1	**0.62**	15.8	1301A	
M17/116-RG307	**1945-6-5**		M49142/08-0005	15	Weatherproof Taper Grip, Wire Holes	**1.49**	37.9	**0.64**	16.3	3-391	
M17/134-00001	**1945-12-5**		M49142/08-0001	15	Weatherproof Taper Grip, Wire Holes	**1.49**	37.9	**0.64**	16.3	R	
M17/134-00002	**1945-13-5**		M49142/08-0002	15	Weatherproof Taper Grip, Wire Holes	**1.49**	37.9	**0.64**	16.3	3-391	
M17/176-00002	**1945-7-5**		M49142/08-0006	15	Weatherproof Taper Grip, Wire Holes	**1.52**	38.6	**0.63**	16.0	3-395	
M17/176-00002		**1945-10-102**		17	Monocrimp, Wire Holes	**1.41**	35.8	**0.63**	16.0	3-400	KTH-2175
M17/176-00002	**1945-14-5**			15	K-Grip, Wire Holes	**1.60**	40.6	**0.64**	16.3	3-425	KTH-2033
MICRODOT 250-4804-0000		**1955-1-9**		16	Conventional, Wire Holes, Polarized	**1.51**	38.4	**0.62**	15.8	1302	
MICRODOT 293-3930		**1945-4-9**		15	Conventional, Wire Holes	**1.51**	38.4	**0.62**	15.8	1301	
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**1945-16-102**		NS	Monocrimp, Wire Holes						

JACKS — TNC Type

MICRODOT 250-4804-0000		**1953-1-M06**		18	Conventional, Polarized	**1.42**	36.1	**0.50**	12.7	1302	

R — request from factory.

TRT/TNC
BULKHEAD JACKS / BULKHEAD RECEPTACLES / ADAPTERS WITHIN SERIES

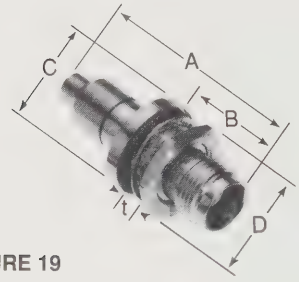


FIGURE 19

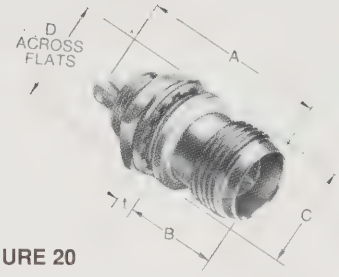


FIGURE 20

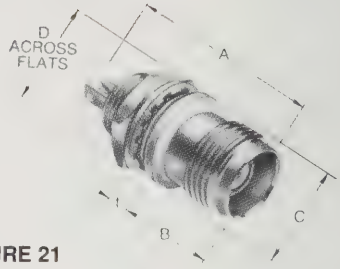
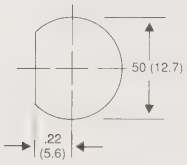
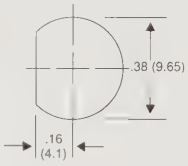


FIGURE 21



MTG. HOLE A



MTG. HOLE B

BULKHEAD JACKS — TRT/TNC

CABLE GROUP	KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CABLING CRIMP DIE
M17/116-RG307	**1942-5-5**		M49142/09-0007	NS	Wthrprf. Taper Grip									**0.242**	6.2	A	3-391	
M17/134-00001	**1942-9-5**		M49142/09-0001	NS	Wthrprf. Taper Grip									**0.242**	6.2	A	R	
M17/134-00002	**1942-10-5**		M49142/09-0002	NS	Wthrprf. Taper Grip									**0.242**	6.2	A	3-391	
M17/176-00002	**1942-7-5**		M49142/09-0006	NS	Wthrprf. Taper Grip									**0.242**	6.2	A	3-395	
M17/176-00002		**1942-8-102**		19	Monocrimp	**1.53**	38.9	**0.68**	17.3	**0.69**	17.5	**0.63**	16.0	**0.116**	3.0	A	3-400	KTH-2175
RAYCHEM 10613 & 10614 GRUMMAN GC875TM24H		**1942-12-102**		NS	Monocrimp									**0.116**	3.0	A		

BULKHEAD RECEPTACLES — TRT/TNC

	1944-2			NS	Hermetic Seal; Rear Mount											A		
		1944-1-9		20	Front Mount	**1.10**	27.9	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.253**	6.4	B		
		1954-1-9		21	Polarized, Front Mnt.	**1.08**	27.4	**0.47**	11.9	**0.50**	12.7	**0.50**	12.7	**0.253**	6.4	B		
	1944-3-5		M49142/10-0001	NS	Rear Mount									**0.253**	6.4	A		
	1944-8-5		M49142/10-0002	NS	Rear Mount									**0.264**	6.7	A		
	1944-9-5			NS	Rear Mount									**0.234**	5.9	A		

ADAPTERS WITHIN SERIES — TRT/TNC

KINGS PART NUMBER SILVER FINISH	KINGS PART NUMBER TR-5 FINISH	MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm
1949-1			NS	Jack-Plug-Jack									

R — request from factory. t — Max. panel thickness.

SDB
DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

SDB series triaxial connectors are a subminiature bayonet and threaded coupling connector used with twinaxial cables. They are in accordance with general provisions of MIL-C-49142 as applicable, and capable of meeting Data Bus requirements of MIL-STD-1553.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	Non-constant
Frequency Range	0 to 500 MHz
Voltage Rating	300 volts rms
Dielectric Withstanding Voltage	1000 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	
Center Contacts	6 milliohms
Intermediate Contacts	3 milliohms
Outer Contacts	1 milliohms

Specifications are typical and may not apply to all connectors.

ENVIRONMENTAL

Temperature Range	–85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-202 Method 204, Test cond. B
Shock	MIL-STD-202, Method 213, Test cond. A
Corrosion (salt spray)	500 hrs per MIL-STD-1344
Moisture Resistance	MIL-STD-202, Method 106
Fungus	MIL-STD-810, Method 508.3

MECHANICAL

Mating	3 and 4 stud bayonet, and threaded. See drawings
Cable Retention	
.140 – .180 OD cable	25 lbs. min.
Center Contact Retention	2 lbs. min, axial force
Connector Durability	500 cycles

MATERIAL

Except as noted in connector listings

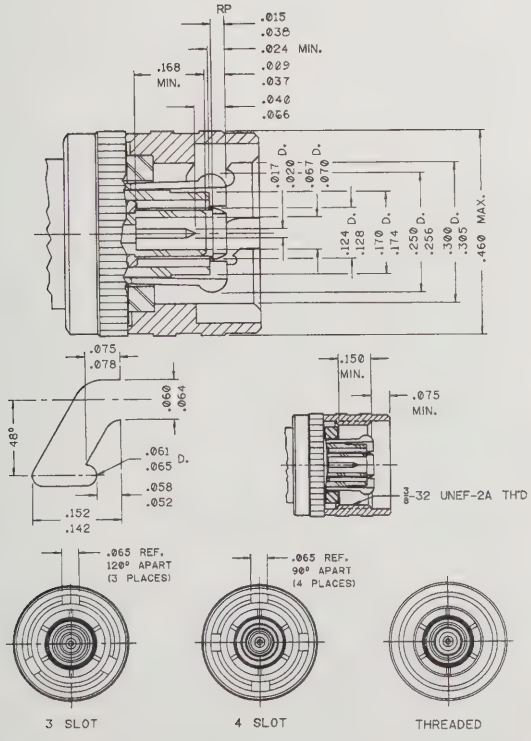
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male and Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Intermediate Male Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Intermediate Female Contacts	Beryllium Copper QQ-C-530, Cond. HT
Outer & Inner Insulators	PTFE, ASTM D1457
Crimp Insulators	Delrin, L-P-392
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

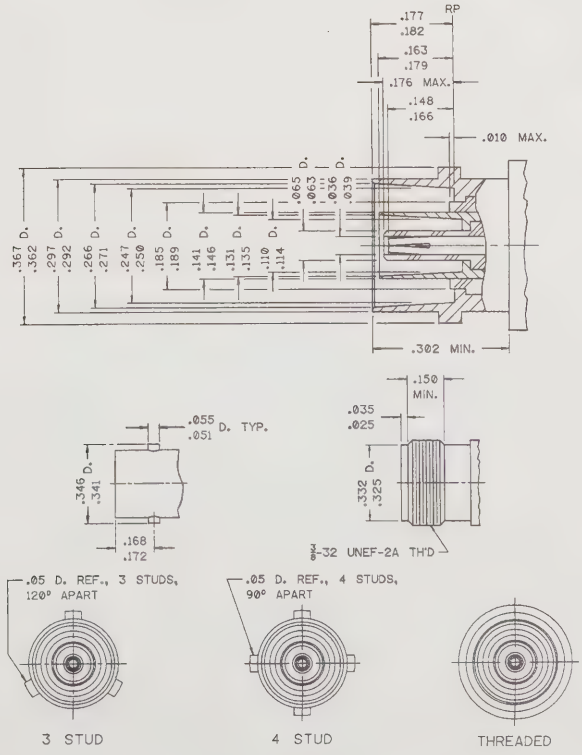
Contacts	.00005" (.00125 mm) min. hard gold plate, MIL-G-45204B
Bodies & Fittings	TR-5® – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

PLUG



JACK



SDB
PLUGS / BULKHEAD JACKS

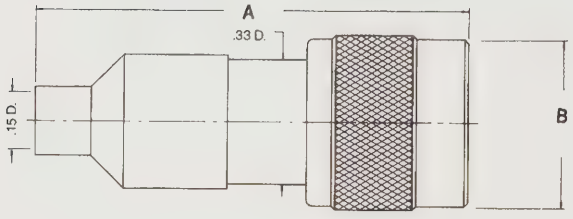


FIGURE 1

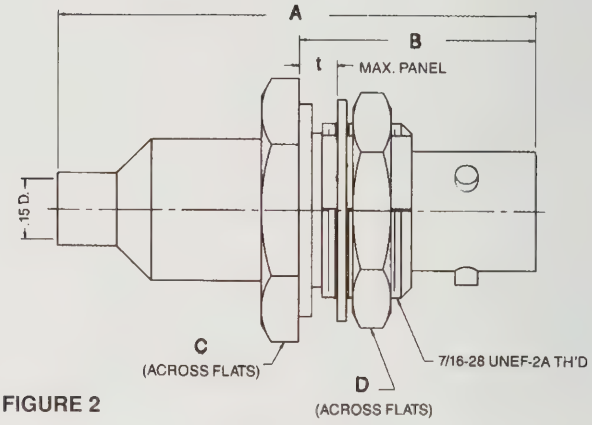
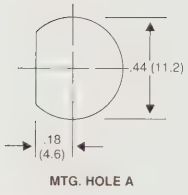


FIGURE 2



MTG. HOLE A

SEE PAGE 101 FOR INTERFACE DIMENSIONS.

PLUGS

CABLE GROUP	KINGS PART NUMBER TR-5 FINISH 3 STUD COUPLING	TR-5 FINISH 4 STUD COUPLING	TR-5 FINISH THREADED COUPLING	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE
M17/176-00002	**2755-1-9**	**2765-1-9**	**2805-1-9**	1	Monocrimp	**1.15**	29.2	**0.46**	11.7								3-349-1	KTH-2168
M17/176-00002	**2755-3-9**			1	Taper Grip	**0.90**	22.9	**0.46**	11.7									
RAYCHEM 10613 & 10614 GRUMMAN GC875-TM24H	**2755-4-9**	**2765-2-9**	**2805-3-9**	1	Monocrimp	**1.15**	29.2	**0.46**	11.7									

BULKHEAD JACKS

M17/176-00002	**2752-1-9**	**2762-1-9**	**2802-1-9**	2	Monocrimp	**1.18**	28.7	**0.58**	14.7	**0.56**	14.2	**0.50**	12.7	**0.145**	3.7	A	3-349-1	KTH-2168
M17/176-00002	**2752-2-9**			2	Taper Grip	**0.90**	22.9	**0.55**	14.0	**0.56**	14.2	**0.50**	12.7	**0.125**	3.2	A		
RAYCHEM 10613 & 10614 GRUMMAN GC875-TM24H	**2752-3-9**	**2762-2-9**	**2802-3-9**	2	Monocrimp	**1.18**	29.7	**0.58**	14.7	**0.56**	14.2	**0.50**	12.7	**0.145**	3.7	A		

SDB
RECEPTACLES / TERMINATIONS / ADAPTERS WITHIN SERIES

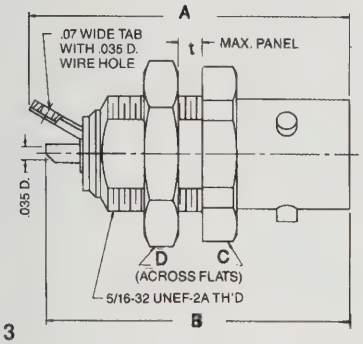


FIGURE 3

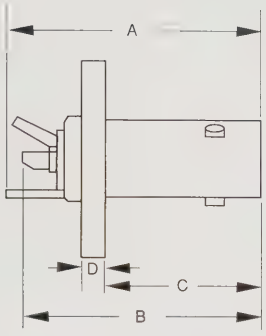


FIGURE 4

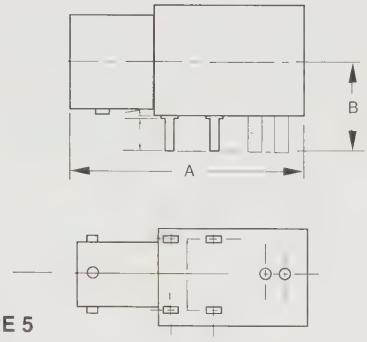


FIGURE 5

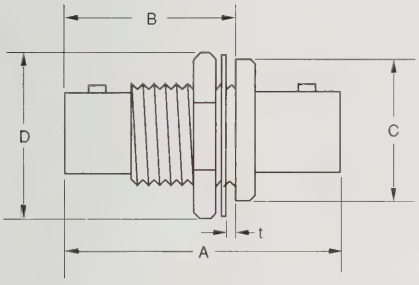


FIGURE 6

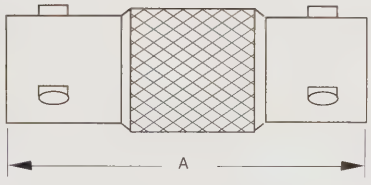


FIGURE 7

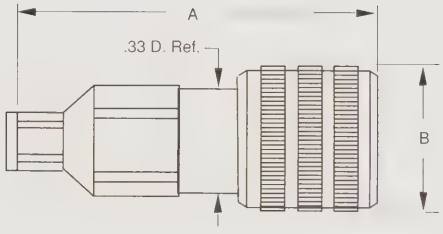
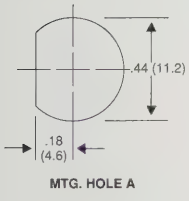
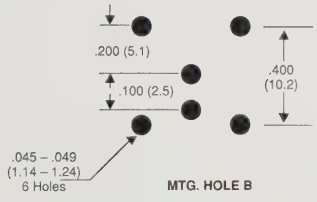


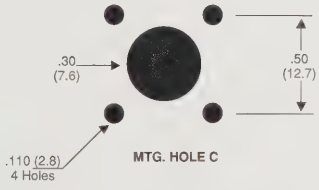
FIGURE 8



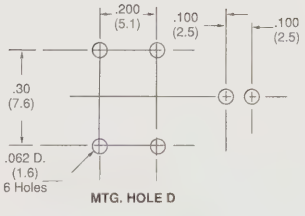
MTG. HOLE A



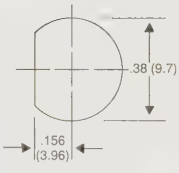
MTG. HOLE B



MTG. HOLE C



MTG. HOLE D



MTG. HOLE E

SEE PAGE 101 FOR INTERFACE DIMENSIONS.

SDB

RECEPTACLES

KINGS PART NUMBER						DIMENSIONS										
TR-5 FINISH 3 STUD COUPLING	TR-5 FINISH 4 STUD COUPLING	TR-5 FINISH THREADED COUPLING	FIG. NO.	ADAPTER ENDS	NOTES	A		B		C		D		t		MTG. HOLE
						in	mm	in	mm	in	mm	in	mm	in	mm	
2754-1-9	**2764-1-9**	**2804-1-9**	3		Front Mount, Bulkhead	**0.90**	22.9	**0.83**	21.1	**0.44**	11.2	**0.44**	11.2	**0.169**	4.3	A
2757-1-4	**2767-2-4**	**2807-2-4**	NS		PCB, Gold Plated Contacts											B
2757-2-4	**2767-1-4**	**2807-1-4**	5		Right Angle PCB, Gold Plated Contacts	**0.79**	20.1	**0.364**	20.1							D
2757-4-9	**2767-3-9**	**2807-3-9**	4		Panel, Gold Plated Contact	**1.05**	26.7	**0.99**	25.1	**0.49**	12.4	**0.09**	2.3			C
TERMINATIONS																
2835-1-9	**2845-1-9**	**2855-1-9**	8		75 ohm 5%, 1/2 watt	**1.18**	30.0	**0.46**	11.7							
ADAPTERS WITHIN SERIES																
2759-1-4	**2769-2-4**	**2809-2-9**	6	Jck-Jck	Gold Plated Center Contact; Bulkhead	**1.07**	27.2	**0.62**	16.0	**0.50**	12.7	**0.50**	12.7	**0.058**	1.5	E
2759-2-9	**2769-1-9**	**2809-1-9**	7	Jck-Jck	Gold Plated Center Contact	**1.07**	27.2	**0.35**	8.9							

MDB
DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

MDB series triaxial connectors are a microminiature bayonet and threaded coupling connector used with twinaxial cables. They are in accordance with general provisions of MIL-C-49142 as applicable, and capable of meeting Data Bus requirements of MIL-STD-1553.

SPECIFICATIONS

ELECTRICAL

Voltage Rating	150 volts rms
Current Rating	3 amps max.
Dielectric Withstanding Voltage	900 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	
Center Contacts	10 milliohms
Intermediate Contacts	8 milliohms
Outer Contacts	8 milliohms

Specifications are typical and may not apply to all connectors.

ENVIRONMENTAL

Temperature Range	–85°F to +185°F (–65°C to +85°C)
Vibration	MIL-STD-202 Method 204, Test cond. B
Shock	MIL-STD-202, Method 213, Test cond. A
Corrosion (salt spray)	500 hrs per MIL-STD-1344
Moisture Resistance	MIL-STD-202, Method 106
Fungus	MIL-STD-810, Method 508.3
Hermetic Seals	Leakage shall not exceed 1×10^{-7} cc/sec of tracer gas at atmospheric pressure.

MECHANICAL

Mating	3 and 4 stud bayonet, and threaded. See drawings
Cable Retention	
.140 – .180 OD cable	25 lbs. min.
Center Contact Retention	5 lbs. min, axial force
Connector Durability	500 cycles

MATERIAL

Except as noted in connector listings

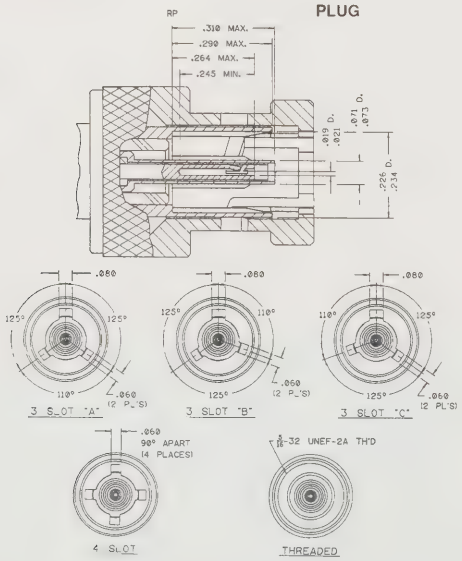
Bodies & Fittings	Brass, QQ-B-626, Alloy 360, 1/2 hard
Crimp Sleeves	Commercial Bronze, Alloy 220
Male and Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Intermediate Male Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Intermediate Female Contacts	Beryllium Copper QQ-C-530, Cond. HT
Outer Insulators	PTFE, ASTM D1457
Inner & Crimp Insulators	Delrin, L-P-392
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

FINISHES

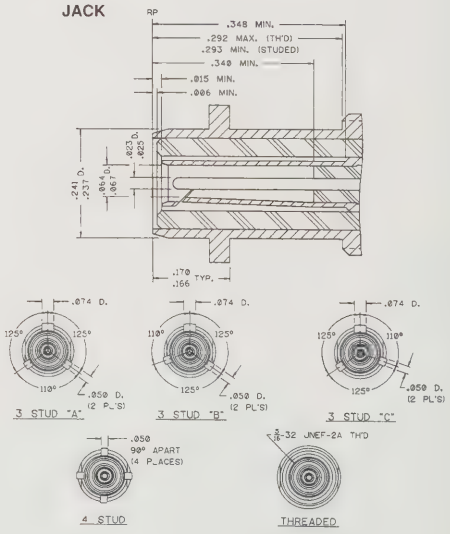
Contacts	.00005" (.00125 mm) min. hard gold plate, MIL-G-45204B
Bodies & Fittings	TR-5® – Kings tarnish resistant alloy electrodeposit finish.

INTERFACE

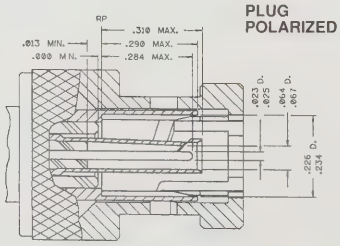
PLUG



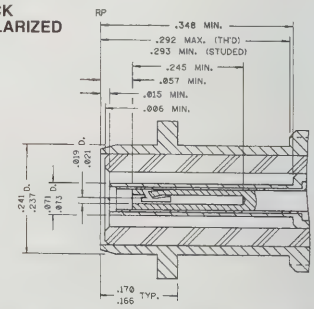
JACK



PLUG POLARIZED



JACK POLARIZED



MDB
PLUGS / BULKHEAD JACKS

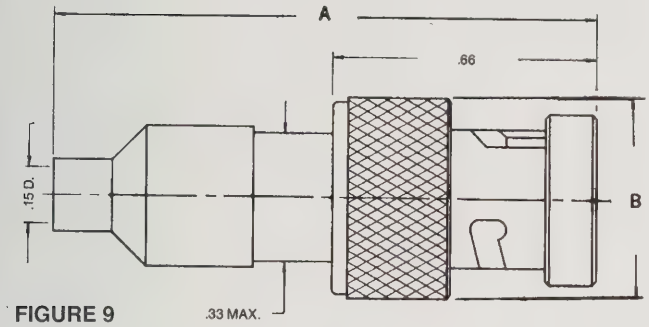


FIGURE 9

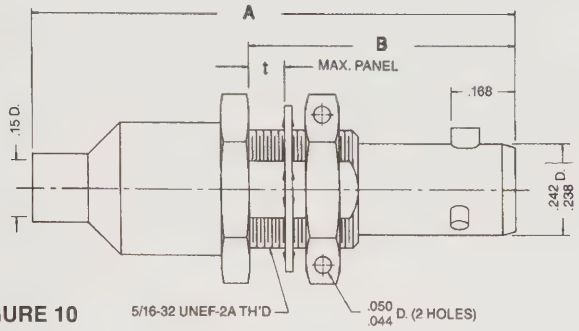
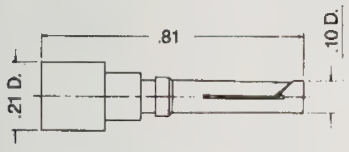
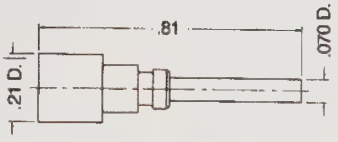


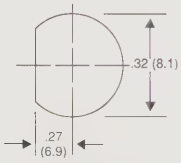
FIGURE 10



Female Contact 2943-1-4



Male Contact 2945-1-4



Contacts — cable size 24AWG, gold plated, Length 0.81, Width 0.21, Crimp Die KTH-2168.

To assemble a complete connector, these bodies must be used with either Male Contact Assembly Part No. 2945-1-4 or Female Contact Assembly Part No. 2943-1-4.

SEE PAGE 104 FOR INTERFACE DIMENSIONS.

PLUGS

CABLE GROUP	KINGS PART NUMBER – BODY ONLY (Body does not include contact asmbly.) TR-5 FINISH 3 STUD COUPLING	KEY	TR-5 FINISH 4 STUD COUPLING	TR-5 FINISH THREADED COUPLING	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE
X-1*	**2775-3-9**	**A**	**2785-3-9**	**2795-3-9**	9	Wire Holes in Threaded Coupling	**1.36**	34.5	**0.51**	13.0				3-349-1	KTH-2168
X-1*	**2875-1-9**	**B**			9	Wire Holes in Threaded Coupling	**1.36**	34.5	**0.51**	13.0				3-349-1	KTH-2168
X-1*	**2865-1-9**	**C**			9	Wire Holes in Threaded Coupling	**1.36**	34.5	**0.51**	13.0				3-349-1	KTH-2168
RAYCHEM 10613 & 10614	**2775-4-9**	**A**	**2785-2-9**	**2795-2-9**	9	Monocrimp	**1.36**	34.5	**0.51**	13.0				R	
GRUMMAN GC875-TM24H	**2875-2-9**	**B**			9	Monocrimp	**1.36**	34.5	**0.51**	13.0				R	
	2865-2-9	**C**			9	Monocrimp	**1.36**	34.5	**0.51**	13.0				R	

BULKHEAD JACKS

X-1*	**2772-3-9**	**A**	**2782-3-9**	**2792-3-9**	10		**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	3-349-1	KTH-2168
X-1*	**2872-3-9**	**B**			10		**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	3-349-1	KTH-2168
X-1*	**2862-1-9**	**C**			10		**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	3-349-1	KTH-2168
RAYCHEM 10613 & 10614	**2772-4-9**	**A**	**2782-4-9**	**2792-4-9**	10	Monocrimp	**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	R	
GRUMMAN GC875-TM24H	**2872-4-9**	**B**			10	Monocrimp	**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	R	
	2862-2-9	**C**			10	Monocrimp	**1.30**	33.0	**0.712**	18.1	**0.156**	4.0	A	R	

*X-1 Cable — M17/176-00002 or Cable Jacket OD .125 to .140.

R— request from factory.

MDB — BULKHEAD RECEPTACLES / TERMINATIONS / ADAPTERS WITHIN SERIES

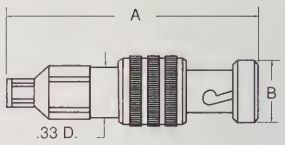


FIGURE 13

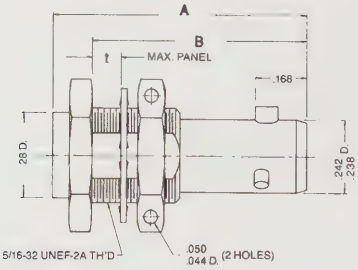


FIGURE 11

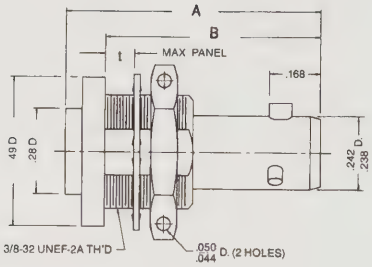


FIGURE 12

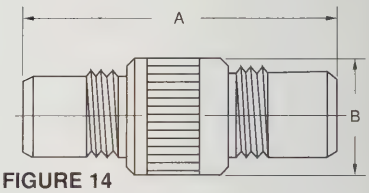
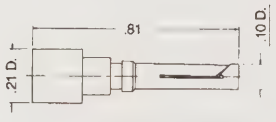


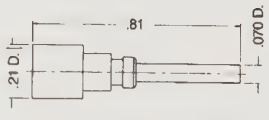
FIGURE 14

SEE PAGE 104 FOR INTERFACE DIMENSIONS

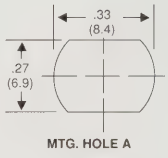
To assemble a complete connector, these bodies must be used with either Male Contact Assembly Part No. 2945-1-4 or Female Contact Assembly Part No. 2943-1-4.

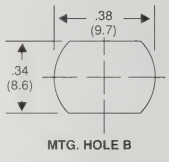


Female Contact 2943-1-4



Male Contact 2945-1-4





Contacts — cable size 24AWG, gold plated, Length 0.81, Width 0.21, Crimp Die KTH-2168.

BULKHEAD RECEPTACLES

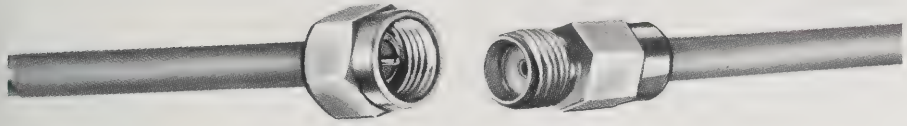
KINGS PART NUMBER – BODY ONLY (Body does not include contact asmbly.)						DIMENSIONS							CABLING	
TR-5 FINISH		TR-5 FINISH	TR-5 FINISH			A		B		t		MTG.		
3 STUD COUPLING	KEY	4 STUD COUPLING	THREADED COUPLING	FIG. NO.	NOTES	in	mm	in	mm	in	mm	HOLE	CBL. TRIM CODE	
2774-3-9	A	2784-3-9	2794-3-9	11		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	A	3-349-2	
2874-1-9	B			11		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	A	3-349-2	
2864-1-9	C			11		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	A	3-349-2	
2774-4-9	A	2784-4-9	2794-4-9	12		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	B	3-349-2	
2874-2-9	B			12		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	B	3-349-2	
2864-2-9	C			12		**0.84**	21.3	**0.712**	18.1	**0.156**	4.0	B	3-349-2	

ADAPTERS WITHIN SERIES

KINGS PART NUMBER							DIMENSIONS				
TR-5 FINISH		TR-5 FINISH	TR-5 FINISH				A		B		
3 STUD COUPLING	KEY	4 STUD COUPLING	THREADED COUPLING	FIG. NO.	ADAPTER ENDS	NOTES	in	mm	in	mm	MTG. HOLE
2779-2-9	A	2789-2-9	2799-2-9	14	Jack-Jack	Gold Plated Contact	**1.35**	34.3	**0.40**	10.2	
2879-2-9	B			14	Jack-Jack	Gold Plated Contact	**1.35**	34.3	**0.40**	10.2	
2869-2-9	C			14	Jack-Jack	Gold Plated Contact	**1.35**	34.3	**0.40**	10.2	
2779-1-9	A	2789-1-9	2799-1-9	NS	Jack-Jack	Bulkhead					B
2879-1-9	B			NS	Jack-Jack	Bulkhead					B
2869-1-9	C			NS	Jack-Jack	Bulkhead					B

TERMINATIONS — Plug Coupling

2885-1-9	A	2915-1-9	2925-1-9	13		75 ohm 5%, 1/2 watt	**1.36**	34.5	**0.51**	13.0	
2895-1-9	B			13		75 ohm 5%, 1/2 watt	**1.36**	34.5	**0.51**	13.0	
2905-1-9	C			13		75 ohm 5%, 1/2 watt	**1.36**	34.5	**0.51**	13.0	



DESCRIPTION/SPECIFICATIONS/ INTERFACE DIMENSIONS

SMA series RF connectors are semi-precision 3mm high frequency subminiature connectors. They are characterized by a 1/4-36 mating thread and a butt mating outer contact. The SMA connector was originally conceived for .141" semi-rigid cable, but the concept has broadened to accommodate cables from .047" to .250" OD both semi-rigid and flexible. It provides repeatable electrical performance from 0 to 18 GHz and is widely used in microwave systems and subsystems where minimum attenuation and low VSWR are required.

VSWR performance and high frequency limit are dependent on the choice of cable and design of the connector. Semi-rigid cables have a frequency range of 0 to 18 GHz,flexible cables 0 to 12 GHz. SMA connectors are covered by MIL-C-39012. Items qualified to MIL-C-39012 are included in the listings and also appear in the latest QPL list for MIL-C-39012. Many additional items are in the process of qualification, therefore contact the factory for qualification status of items that do not appear in the listings.

CABLE GROUPS — RG/U, M17		
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001, M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
C	C-1	122, M17/54-RG122
	C-2	180, 180A, 180B, 195, 195A, M17/95-RG180, M17/137-00001
	C-3	Essex 21-597, Belden 8218
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142, M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
F		303 (For Crimp Connectors Refer to D), M17/111-RG303

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Frequency Range	Semi-rigid cables 0 to 18 GHz Flexible cables 0-12.4 GHz
Voltage Rating	355 to 500 vrms dependent on cable
Dielectric Withstanding Voltage	500 to 1500 vrms dependent on cable

ELECTRICAL — Continued

Insulation Resistance	5000 megohms
VSWR	In accordance with MIL-C-39012. Dependent upon cable used and design of connector.
Typical VSWR, For straight cable connectors:	
Cable	**VSWR**
RG-402 (.141) (connector w/o contact)	1.035 + .005 F (GHz)
RG-402 (.141) (connector with contact)	1.05 + .01 F (GHz)
RG-405 (.086)	1.07 + .01 F (GHz)
RG-178	1.20 + .025 F (GHz)
RG-122, 174, 316	1.15 + .02 F (GHz)
RG-58, 142, 223, 303, 400	1.15 + .01 F (GHz)
RF Leakage	Dependent on cable and connector — –60 to –90 dB min. between 2-3 GHz
Insertion Loss	Dependent on connector — in dB
straight plug or jack semi-rigid cable	$.03\sqrt{f}$ GHz (test freq. 15.5-18 GHz)
straight plug or jack flexible cable	$.06\sqrt{f}$ GHz (test freq. 6 GHz)
right angle plug or jack semi-rigid cable	$.05\sqrt{f}$ GHz (test freq. 9-12.4 GHz)
right angle plug or jack flexible cable	$.15\sqrt{f}$ GHz (test freq. 6 GHz)
Contact Resistance	
center contact (when supplied)	3 milliohms
outer contact	2 milliohms

SMA crimp type connectors for semi-rigid cable are manufactured under U.S. Patent 4469390.

ENVIRONMENTAL

Temperature Range	–85°F to +329°F (–65°C to +165°C)
Vibration	MIL-STD-202 Method 204, Test cond. D
Shock	MIL-STD-202, Method 213, Test cond. I
Corrosion (salt spray)	MIL-STD-202, Method 101, Test cond. B
Moisture Resistance	MIL-STD-202, Method 106
Hermetic Seals	Leakage shall not exceed $1x10^{-7}$ cc/sec of tracer gas at atmospheric pressure

MECHANICAL

Mating	.250-36 threaded coupling per MIL-C-39012 or MIL-STD-348 as applicable.
Cable Retention	10 to 60 lbs. depending on cable and connector
Center Contact Retention	6 lbs. min. axial force. Applicable to captivated center contact connectors only.
Coupling Nut Mating Torque	7-10 inch pounds
Connector Durability	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Fittings	1. Stainless Steel, QQ-S-763 2. Beryllium Copper, QQ-C-530
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	Brass, QQ-B-626, Alloy 360, 1/2 hard
Female Center Contacts	Beryllium Copper, QQ-C-530, Cond. HT
Insulators	PTFE, ASTM D1457
Gaskets & Seals	Silicone Rubber, ZZ-R-765a, Class IIa, Grade 50

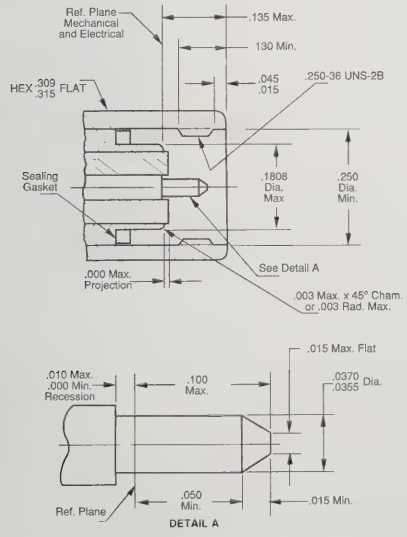
FINISHES

Contacts	.0001" (.0025 mm) min. hard gold plate, MIL-G-45204B
Other Metal Parts	.00005" (.00125 mm) min. hard gold plate, MIL-G-45204B or Passivated to meet corrosion requirements of MIL-C-39012.

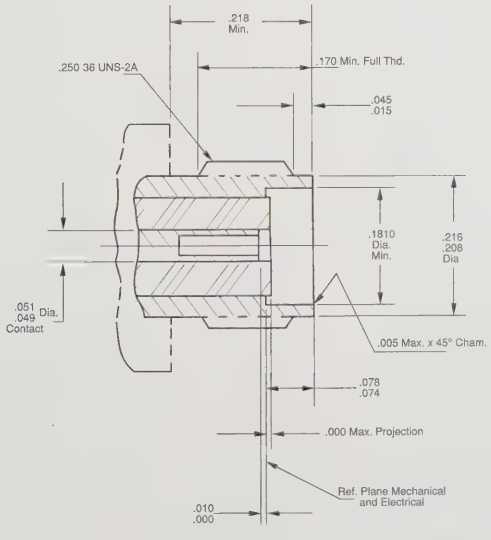
Specifications are typical for connectors designed to MIL-C-39012 and may not apply to all connectors.

INTERFACE— Per MIL-C-39012 or MIL-STD-348 as applicable.

PLUG



JACK



*For these cables, crimping the center contact is not recommended when crimp contact is indicated. (For Cable Groups)

PLUGS

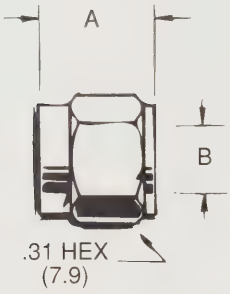


FIGURE 1

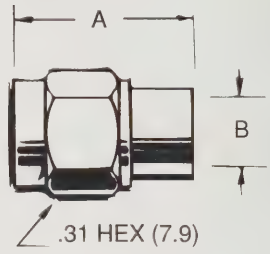


FIGURE 2

DIRECT SOLDER TYPE FOR SEMI-RIGID CABLE

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER† (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING				
						A		B			CRIMP DIE FOR			
	PASSIVATED FINISH‡	GOLD PLATE FINISH				in	mm	in	mm	CBL. TRIM CODE	TOOL KTH-1000	TOOL KTH-6000	JACKET TRIM JIG	DIELEC. TRIM JIG
.141" SR M17/130-RG402	**875-4-3**	**875-4-1**		1	Shell Only	**0.33**	8.4	**0.14**	3.6	3-82				
.141" SR M17/130-RG402	**875-59-3**	**875-59-1**		2	Shell Only	**0.44**	11.2	**0.14**	3.6	3-302			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-58-3**	**875-58-1**		2	With Contact, Non-Captive	**0.44**	11.2	**0.14**	3.6	3-303				
.141" SR M17/130-RG402	**875-70-3**	**875-70-1**	M39012/79-3108	2	With Contact, Captive	**0.43**	10.9	**0.14**	3.6	3800-1			KTO-3A	KTO-3A
.141" SR M17/130-RG402	**875-70-17**		M39012/79-3008	2	With Contact, Captive, Wire Holes	**0.43**	10.9	**0.14**	3.6	3800-2			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-71-3**		M39012/92-3103	1	Shell Only	**0.33**	8.4	**0.14**	3.6	3-302			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-71-17**		M39012/92-3003	1	Shell Only, Wire Holes	**0.33**	8.4	**0.14**	3.6	3-302			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-72-3**		M39012/92-3103	2	Shell Only	**0.43**	10.9	**0.14**	3.6	3-302			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-72-17**		M39012/92-3003	2	Shell Only, Wire Holes	**0.43**	10.9	**0.14**	3.6	3-302			KTO-2A	KTO-2A
.086" SR M17/133-RG405	**875-10-3**	**875-10-1**		2	With Contact, Non-Captive	**0.44**	11.2	**0.09**	2.3	1503M				
.086" SR M17/133-RG405	**875-69-3**	**875-69-1**	M39012/79-3107	2	With Contact, Captive	**0.43**	10.9	**0.09**	2.3	3800-1			KTO-3A	KTO-3A
.086" SR M17/133-RG405	**875-69-17**		M39012/79-3007	2	With Contact, Captive, Wire Holes	**0.43**	10.9	**0.09**	2.3	3800-1			KTO-3A	KTO-3A

CRIMP TYPE FOR SEMI-RIGID CABLE

.141" SR M17/130-RG402	**875-47-3**		M39012/92-3302	3	Shell Only	**0.52**	13.2	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-47-17**		M39012/92-3202	3	Shell Only, Wire Holes	**0.52**	13.2	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-53-3**			3	Shell Only, Retractable Coupling Net	**0.52**	13.2	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-56-3**		M39012/79-3310	4	Captive Contact	**0.65**	16.5	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.141" SR M17/130-RG402	**875-56-17**		M39012/79-3210	4	Captive Contact, Wire Holes	**0.65**	16.5	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.086" SR M17/133-RG405	**875-60-3**			4	Captive Contact	**0.44**	11.2	**0.09**	2.3	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A
.086" SR M17/133-RG405	**875-60-17**			4	Captive Contact, Wire Holes	**0.44**	11.2	**0.09**	2.3	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A

†Contact factory for qualification status. **‡Body gold plated for solderability — Direct Solder Type.**

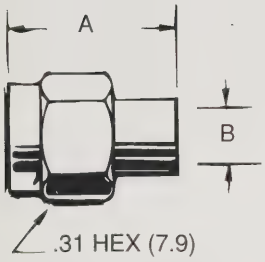


FIGURE 3

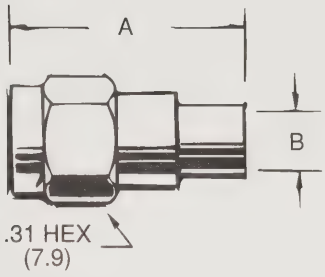


FIGURE 4

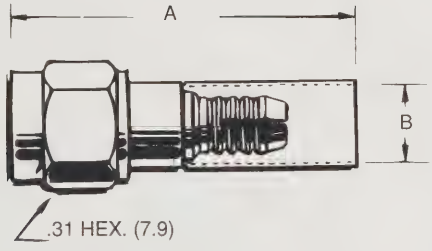


FIGURE 5

CRIMP TYPE FOR FLEXIBLE CABLE*

CABLE GROUP	KINGS PART NUMBER		MILITARY NUMBER (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS				CABLING				
						A		B			CRIMP DIE FOR			
	PASSIVATED FINISH	GOLD PLATE FINISH				in	mm	in	mm	CBL. TRIM CODE	TOOL KTH-1000	TOOL KTH-6000	JACKET TRIM JIG	DIELEC. TRIM JIG
B-1	**875-9-3**	**875-9-1**	M39012/55B3112	5		**0.93**	23.6	**0.12**	3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
B-1	**875-38-17**		M39012/55B3012	5	Lockwire Holes	**0.93**	23.6	**0.12**	3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
B-1	**875-57-3**	**875-57-1**		5	Captive Contact	**0.99**	25.1	**0.12**	3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
B-1		**875-13**	M39012/55B4112	5		**0.93**	23.6	**0.12**	3.0	439	KTH-2081	KTH-6081	KTJ-82	KTD-121
C-1	**875-16-3**	**875-16-1**	M39012/55B3113	5		**0.99**	25.1	**0.18**	4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
C-1	**875-41-17**		M39012/55B3013	5	Lockwire Holes	**0.99**	25.1	**0.18**	4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
C-1	**875-65-3**			5	Captive Contact	**0.99**	25.1	**0.18**	4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
D	**875-1-3**	**875-1-1**	M39012/55B3114	5		**0.99**	25.1	**0.21**	5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
D	**875-42-17**		M39012/55B3014	5	Lockwire Holes	**0.99**	25.1	**0.21**	5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
D	**875-66-3**			5	Captive Contact	**0.99**	25.1	**0.21**	5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-1	**875-3-3**	**875-3-1**	M39012/55B3116	5		**0.99**	25.1	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-1	**875-44-17**		M39012/55B3016	5	Lockwire Holes	**0.99**	25.1	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**875-5-3**	**875-5-1**	M39012/55B3115	5		**0.99**	25.1	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**875-21-3**	**875-21-1**	M39012/55-3602	5	Captive Contact	**0.99**	25.1	**0.22**	5.6	432	KTH-2113		KTJ-78	KTD-116
E-2	**875-21-17**		M39012/55-3502	5	Captive Contact, Lockwire Holes	**0.99**	25.1	**0.22**	5.6	432	KTH-2113		KTJ-78	KTD-116
E-2	**875-43-17**		M39012/55B3015	5	Lockwire Holes	**0.99**	25.1	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116

***MIL qualified weatherproof sleeve versions available, contact factory.**

ANGLE PLUGS

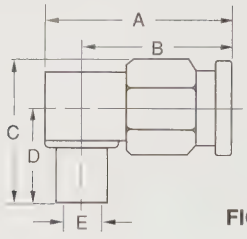


FIGURE 6

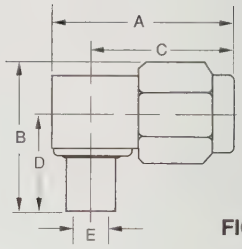


FIGURE 7

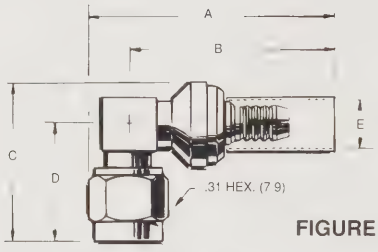


FIGURE 8

DIRECT SOLDER TYPE FOR SEMI-RIGID CABLE

CABLE GROUP	KINGS PART NUMBER PASSIVATED FINISH‡	KINGS PART NUMBER GOLD PLATE FINISH	MILITARY NUMBER† (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS A in mm	B in mm	C in mm	D in mm	E in mm	CABLING CBL. TRIM CODE	CRIMP DIE FOR TOOL KTH-1000	CRIMP DIE FOR TOOL KTH-6000	JACKET TRIM JIG	DIELEC. TRIM JIG
.141" SR M17/130-RG402	**876-49-3**	**876-49-1**	M39012/80-3108	7		**0.65** 16.5	**0.54** 13.7	**0.51** 13.0	**0.36** 9.1	**0.15** 3.8	3-355			KTO-2A	KTO-2A
.141" SR M17/130-RG402	**876-49-17**		M39012/80-3008	6	Lockwire Holes	**0.65** 16.5	**0.54** 13.7	**0.51** 13.0	**0.36** 9.1	**0.15** 3.8	3-355			KTO-2A	KTO-2A
.086" SR M17/133-RG405	**876-48-3**	**876-48-1**	M39012/80-3107	7		**0.65** 16.5	**0.50** 12.7	**0.51** 13.0	**0.32** 8.1	**0.09** 2.3	3-355			KTO-3A	KTO-3A
.086" SR M17/133-RG405	**876-48-17**		M39012/80-3007	6	Lockwire Holes	**0.65** 16.5	**0.50** 12.7	**0.51** 13.0	**0.32** 8.1	**0.09** 2.3	3-355			KTO-3A	KTO-3A
CRIMP TYPE FOR SEMI-RIGID CABLE															
.141" SR M17/130-RG402	**876-42-3**		M39012/80-3310	7		**0.65** 16.5	**0.55** 14.0	**0.51** 13.0	**0.37** 9.4	**0.14** 3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.141" SR M17/130-RG402	**876-42-17**		M39012/80-3210	6	Lockwire Holes	**0.65** 16.5	**0.51** 13.0	**0.55** 14.0	**0.37** 9.4	**0.14** 3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.086" SR M17/133-RG405	**876-50-3**			7		**0.65** 16.5	**0.51** 13.0	**0.49** 12.5	**0.31** 7.9	**0.09** 2.3	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A
.086" SR M17/133-RG405	**876-50-17**			6	Lockwire Holes	**0.65** 16.5	**0.51** 13.0	**0.49** 12.5	**0.31** 7.9	**0.09** 2.3	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A
CRIMP TYPE FOR FLEXIBLE CABLE*															
B-1	**876-2-3**	**876-2-1**	M39012/56B3112	8		**1.02** 25.9	**0.84** 21.3	**0.69** 17.5	**0.51** 13.0	**0.12** 3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
B-1	**876-32-17**		M39012/56B3012	8	Lockwire Holes	**1.02** 25.9	**0.84** 21.3	**0.69** 17.5	**0.51** 13.0	**0.12** 3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
C-1	**876-9-3**	**876-9-1**	M39012/56B3113	8		**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.18** 4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
C-1	**876-36-17**		M39012/56B3013	8	Lockwire Holes	**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.18** 4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
D	**876-5-3**	**876-5-1**	M39012/56B3114	8		**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.21** 5.3	432	KTH-2001	KTH-6021	KTJ-78	KTD-116
D	**876-37-17**		M39012/56B3014	8	Lockwire Holes	**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.21** 5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-1	**876-13-3**	**876-13-1**	M39012/56B3116	8		**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.22** 5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-1	**876-38-17**		M39012/56B3016	8	Lockwire Holes	**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.22** 5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**876-11-3**	**876-11-1**	M39012/56B3115	8		**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.22** 5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**876-33-17**		M39012/56B3015	8	Lockwire Holes	**1.08** 27.4	**0.90** 22.9	**0.69** 17.5	**0.51** 13.0	**0.22** 5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
F	**876-39-3**	**876-39-1**	M39012/56B3117	8		**1.11** 28.2	**0.93** 23.6	**0.69** 17.5	**0.51** 13.0	**0.21** 5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
F	**876-40-17**		M39012/56B3017	8	Lockwire Holes	**1.11** 28.2	**0.93** 23.6	**0.69** 17.5	**0.51** 13.0	**0.21** 5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116

†Contact factory for qualification status. ‡Body gold plated for solderability — Direct Solder Type. *MIL qualified weatherproof sleeve versions available, contact factory.

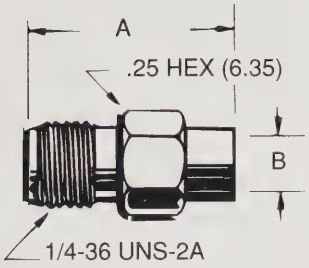


FIGURE 9

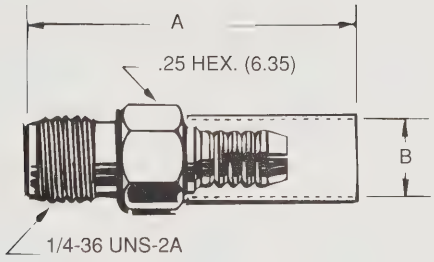


FIGURE 10

DIRECT SOLDER TYPE FOR SEMI-RIGID CABLE

CABLE GROUP	KINGS PART NUMBER PASSIVATED FINISH‡	KINGS PART NUMBER GOLD PLATE FINISH	MILITARY NUMBER† (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE FOR TOOL KTH-1000	CABLING CRIMP DIE FOR TOOL KTH-6000	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
.141" SR M17/130-RG402		**873-4-1**		9	With contact, Non-captive			**0.14**	3.6	1503F				
.141" SR M17/130-RG402	**873-19-3**	**873-19-1**	M39012/81-3008	9	With contact, Captive	**0.52**	13.2	**0.14**	3.6	3800-2			KTO-2A	KTO-2A
.086" SR M17/133-RG405		**873-9-1**		9	With contact, Non-captive			**0.09**	2.3	1503F				
.086" SR M17/133-RG405	**873-22-3**	**873-22-1**	M39012/81-3007	9	With contact, Captive	**0.52**	13.2	**0.09**	2.3	3800-1			KTO-3A	KTO-3A

CRIMP TYPE FOR SEMI-RIGID CABLE

.141" SR M17/130-RG402	**873-36-3**		M39012/81-3210	9	Captive Contact	**0.69**	17.5	**0.14**	3.6	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.086" SR M17/133-RG405	**873-38-3**			9	Captive Contact	**0.50**	12.7	**0.09**	2.3	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A

CRIMP TYPE FOR FLEXIBLE CABLE*

B-1	**873-8-3**	**873-8-1**		10		**0.93**	21.1	**0.12**	3.0	439	KTH-2021	KTH-6021	KTJ-82	KTD-121
C-1	**873-16-3**	**873-16-1**		10		**0.95**	24.3	**0.18**	4.6	432	KTH-2025	KTH-6025	KTJ-114	KTD-160
D	**873-1-3**	**873-1-1**		10		**0.95**	24.3	**0.21**	5.3	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-1	**873-3-3**	**873-3-1**		10		**0.95**	24.3	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**873-5-3**	**873-5-1**		10		**0.95**	24.3	**0.22**	5.6	432	KTH-2001	KTH-6001	KTJ-78	KTD-116
E-2	**873-18-3**	**873-18-1**	M39012/57-3502	10		**0.96**	24.4	**0.22**	5.6	493	KTH-2113	KTH-6113	KTJ-169	KTD-215

‡Body gold plated for solderability — Direct Solder Type. **†Contact factory for qualification status.** ***MIL qualified weatherproof sleeve versions available, contact factory.**

BULKHEAD JACKS / PANEL JACKS

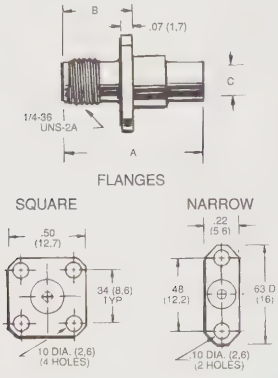


FIGURE 14

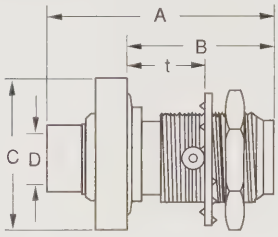


FIGURE 11

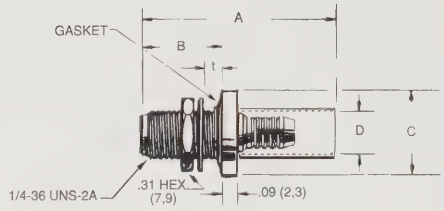


FIGURE 12

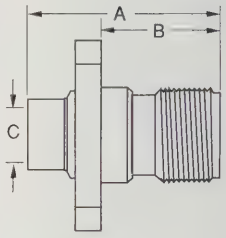


FIGURE 13

BULKHEAD JACKS — DIRECT SOLDER TYPE FOR SEMI-RIGID CABLE

CABLE GROUP	KINGS PART NUMBER PASSIVATED FINISH‡	KINGS PART NUMBER GOLD PLATE FINISH	MILITARY NUMBER† (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE FOR TOOL KTH-1000	CRIMP DIE FOR TOOL KTH-6000	JACKET TRIM JIG	DIELEC. TRIM JIG
.141" SR M17/130-RG402	**872-37-3**	**872-37-1**	M39012/83-3008	11	Rear Mnt., Capt. Cont.	**0.64**	16.3	**0.41**	10.4	**0.44**	11.2	**0.14**	3.6	**0.113**	2.9	B	3800-2			KTO-2A	KTO-2A
.086" SR M17/133-RG405	**872-36-3**	**872-36-1**	M39012/83-3007	11	Rear Mnt., Capt. Cont.	**0.64**	16.3	**0.41**	10.4	**0.44**	11.2	**0.09**	2.3	**0.113**	2.9	B	3800-1			KTO-3A	KTO-3A

BULKHEAD JACKS — CRIMP TYPE FOR SEMI-RIGID CABLE

.141" SR M17/130-RG402	**872-34-3**		M39012/83-3210	11	Rear Mount	**0.69**	17.5	**0.41**	10.4	**0.43**	10.9	**0.14**	3.6	**0.12**	3.0	A	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.086" SR M17/130-RG402	**872-35-3**			11	Rear Mount	**0.61**	15.5	**0.41**	10.4	**0.43**	10.9	**0.09**	2.3	**0.103**	2.6	A	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A

BULKHEAD JACKS — CRIMP TYPE FOR FLEXIBLE CABLE*

B-1	**872-30-3**	**872-30-1**	M39012/59B3012	12	Rear Mnt., Wthrprf.	**0.93**	23.6	**0.41**	10.4	**0.44**	11.2	**0.12**	3.0	**0.12**	3.0	A	432	KTH-2081	KTH-6081	KTJ-114	KTD-168
C-1	**872-10-3**		M39012/59B3013	12	Rear Mount	**1.00**	25.4	**0.41**	10.4	**0.44**	11.2	**0.18**	4.6	**0.12**	3.0	A	462	KTH-2025	KTH-6025	KTJ-41	KTD-61
D	**872-4-3**		M39012/59B3014	12	Rear Mount	**1.00**	25.4	**0.41**	10.4	**0.44**	11.2	**0.18**	4.6	**0.12**	3.0	A	462	KTH-2001	KTH-6001	KTJ-109	KTD-157
E-1	**872-3-3**		M39012/59B3016	12	Rear Mount											A	R				
E-2	**872-2-3**		M39012/59B3015	12	Rear Mount	**1.00**	25.4	**0.41**	10.4	**0.44**	11.2	**0.22**	5.6	**0.12**	3.0	A	462	KTH-2001	KTH-6001	KTJ-109	KTD-157
F	**872-32-3**		M39012/59B3017	12	Rear Mount											A	R				

PANEL JACKS — DIRECT SOLDER TYPE FOR SEMI-RIGID CABLE

CABLE GROUP	KINGS PART NUMBER PASSIVATED FINISH‡	KINGS PART NUMBER GOLD PLATE FINISH	MILITARY NUMBER† (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	MTG. FLANGE	MTG. HOLE	CABLING CBL. TRIM CODE	CRIMP DIE FOR TOOL KTH-1000	CRIMP DIE FOR TOOL KTH-6000	JACKET TRIM JIG	DIELEC. TRIM JIG
.141" SR M17/130-RG402	**871-38-3**	**871-38-1**	M39012/82-3008	13	Captive Contact	**0.52**	13.2	**0.33**	8.4	**0.14**	3.6	**0.50 Sq.**	C	3800-2			KTO-2A	KTO-2A
.086" SR M17/133-RG405	**871-37-3**	**871-37-1**	M39012/82-3007	13	Captive Contact	**0.52**	13.2	**0.33**	8.4	**0.09**	2.3	**0.50 Sq.**	C	3800-1			KTO-3A	KTO-3A

PANEL JACKS — CRIMP TYPE FOR SEMI-RIGID CABLE

.141" SR M17/130-RG402	**871-34-3**		M39012/82-3210	14	Square Flange	**0.50**	12.7	**0.39**	9.9	**0.14**	3.6		D	3500	KTH-2025	KTH-6025	KTO-2A	KTO-2A
.086" SR M17/133-RG405	**871-36-3**			14	Square Flange	**0.50**	12.7	**0.39**	9.9	**0.09**	2.3		D	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A
.086" SR M17/133-RG405	**871-35-3**			14	Narrow Flange	**0.50**	12.7	**0.39**	9.9	**0.09**	2.3		E	3-308	KTH-2025	KTH-6025	KTO-3A	KTO-3A

‡Body gold plated for solderability — Direct Solder Type. **†Contact factory for qualification status.** **R — request from factory.**

***MIL qualified weatherproof sleeve versions available, contact factory.**

BULKHEAD RECEPTACLES / PANEL RECEPTACLES / PC RECEPTACLES

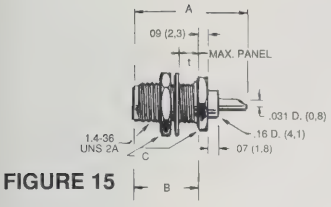


FIGURE 15

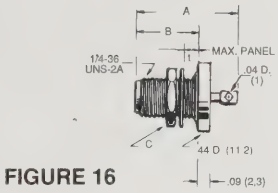


FIGURE 16

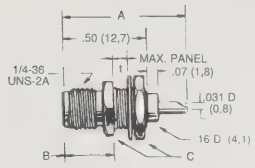


FIGURE 17

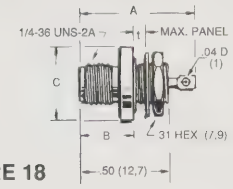


FIGURE 18

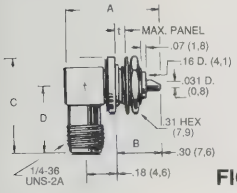


FIGURE 19

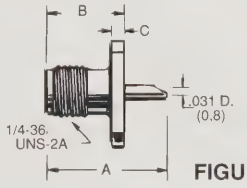


FIGURE 20

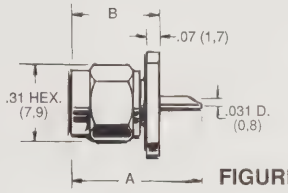


FIGURE 21

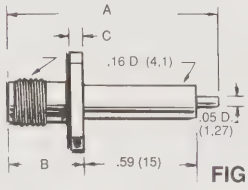


FIGURE 22

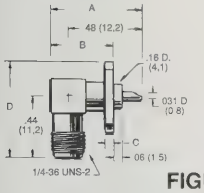


FIGURE 23

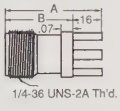
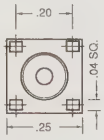


FIGURE 24



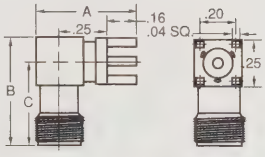


FIGURE 25

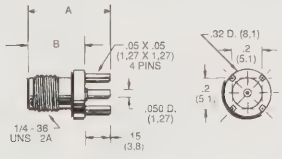


FIGURE 26

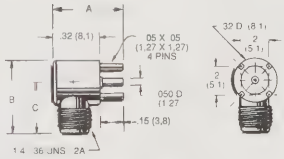


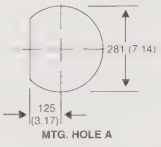
FIGURE 27

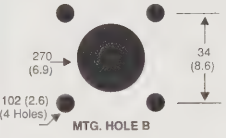
BULKHEAD RECEPTACLES

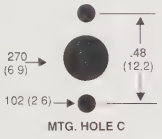
KINGS PART NUMBER		MILITARY NUMBER (PASSIVATED FINISH ONLY)	FIG. NO.	NOTES	DIMENSIONS										MTG. HOLE
					A		B		C		D		t		
PASSIVATED FINISH	GOLD PLATE FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	
874-3-3	874-3-1	M39012/62-3001	16	Rear Mount, Hermetic Seal	0.67	17.0	0.41	10.4	0.31	7.9			0.095	2.4	A
874-4-3	874-4-1	M39012/62-3002	18	Front Mount, Hermetic Seal	0.67	17.0	0.38	9.7	0.31	7.9			0.095	2.4	A
874-7-3	874-7-1		19	Front Mount, Right Angle	0.60	15.2	0.30	7.6	0.59	15.0	0.44	11.2	0.06	1.5	A
874-10-3	874-10-1	M39012/61-3001	15	Rear Mount	0.69	17.5	0.41	10.4	0.31	7.9			0.125	3.2	A
874-11-3	874-11-1	M39012/61-3002	17	Front Mount	0.69	17.5	0.28	7.1	0.31	7.9			0.125	3.2	A

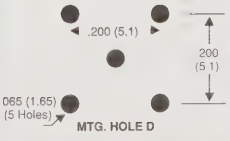
PANEL RECEPTACLES

877-3-3	877-3-1		23	Right Angle	0.60	15.2	0.42	10.7	0.05	1.3	0.69	17.5			B
877-5-3	877-5-1		22		1.09	27.7	0.38	9.7	0.07	1.7					B
877-66-3	877-66-1	M39012/60-3001	20	Square Flange	0.58	14.7	0.38	9.7	0.07	1.7					B
877-67-3	877-67-1	M39012/60-3002	20	Narrow Flange	0.58	14.7	0.38	9.7	0.07	1.7					C
877-68-3	877-68-1		21	Male	0.67	17.0	0.48	12.2	0.07	1.7					B









PC RECEPTACLES

KINGS PART NUMBER		MILITARY NUMBER†	FIG. NO.	NOTES	PLATING		DIMENSIONS								MTG. HOLE
							MAX. BOARD THICKNESS		A		B		C		
GOLD FINISH					MATING PINS	CONTACT	in	mm	in	mm	in	mm	in	mm	
877-69-1			26		Gold	Gold	1/8	1.6	0.53	13.5	0.38	9.7			D
877-70-1			27	Right Angle	Gold	Gold	1/8	1.6	0.47	11.9	0.55	14.0	0.39	9.9	D
877-86-1		M39012/93-3001	24		Gold	Gold	1/8	1.6	0.54	13.7	0.38	9.7			D
877-87-1		M39012/94-3001	25	Right Angle	Gold	Gold	1/8	1.6	0.53	13.5	0.59	15.0	0.46	11.7	D

†Contact factory for qualification status.

STRIP-LINE LAUNCHERS
STRIP-LINE END LAUNCHERS

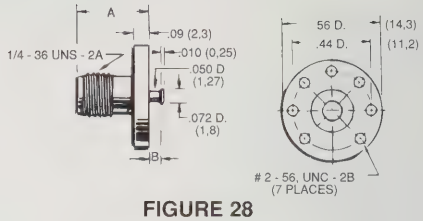


FIGURE 28

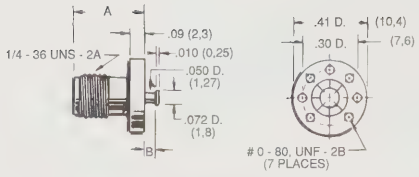


FIGURE 29

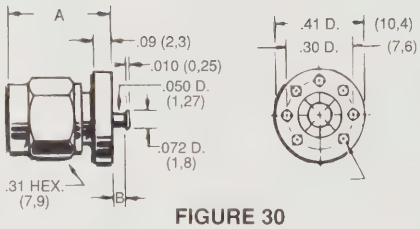


FIGURE 30

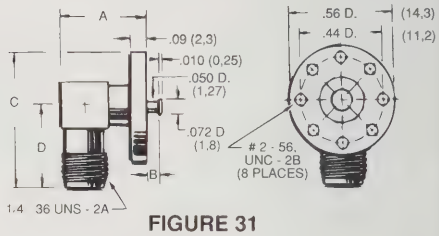


FIGURE 31

STRIP-LINE LAUNCHERS — Center Contacts Gold Plated —

KINGS PART NUMBER		FIG. NO.	NOTES	CONTACT TYPE	DIMENSIONS							
					A		B		C		D	
PASSIVATED FINISH	GOLD PLATE FINISH				in	mm	in	mm	in	mm	in	mm
877-14-3	**877-14-1**	29		Removable	**0.38**	9.7	**0.31**	7.9				
877-15-3	**877-15-1**	29		Removable	**0.38**	9.7	**0.62**	15.7				
877-16-3	**877-16-1**	29		Removable	**0.38**	9.7	**0.125**	3.2				
877-17-3	**877-17-1**	28		Removable	**0.38**	9.7	**0.31**	7.9				
877-18-3	**877-18-1**	28		Removable	**0.38**	9.7	**0.62**	15.7				
877-19-3	**877-19-1**	28		Removable	**0.38**	9.7	**0.125**	3.2				
877-22-3	**877-22-1**	32		Removable	**0.45**	11.4	**0.31**	7.9				
877-23-3	**877-23-1**	32		Removable	**0.45**	11.4	**0.62**	15.7				
877-24-3	**877-24-1**	32		Removable	**0.45**	11.4	**0.125**	3.2				
877-25-3	**877-25-1**	31	Right Angle	Fixed	**0.42**	10.7	**0.31**	7.9	**0.72**	18.3	**0.44**	11.2
877-26-3	**877-26-1**	31	Right Angle	Fixed	**0.42**	10.7	**0.62**	15.7	**0.72**	18.3	**0.44**	11.2
877-27-3	**877-27-1**	31	Right Angle	Fixed	**0.42**	10.7	**0.125**	3.2	**0.72**	18.3	**0.44**	11.2
877-34-3	**877-34-1**	30		Removable	**0.45**	11.4	**0.31**	7.9				
877-35-3	**877-35-1**	30		Removable	**0.45**	11.4	**0.62**	15.7				
877-36-3	**877-36-1**	30		Removable	**0.45**	11.4	**0.125**	3.2				
877-37-3	**877-37-1**	33	Right Angle	Fixed	**0.42**	10.7	**0.31**	7.9	**0.64**	16.3	**0.44**	11.2
877-38-3	**877-38-1**	33	Right Angle	Fixed	**0.42**	10.7	**0.62**	15.7	**0.64**	16.3	**0.44**	11.2
877-39-3	**877-39-1**	33	Right Angle	Fixed	**0.42**	10.7	**0.125**	3.2	**0.64**	16.3	**0.44**	11.2

STRIP-LINE END LAUNCHERS — Center Contacts Gold Plated —

877-28-3	**877-28-1**	35		Tab	**0.60**	15.2	**0.06**	1.5				
877-29-3	**877-29-1**	35		Tab	**0.60**	15.2	**0.125**	3.2				
877-30-3	**877-30-1**	35		Tab	**0.60**	15.2	**0.25**	6.4				
877-31-3	**877-31-1**	34		Tab	**0.74**	18.8	**0.06**	1.5				
877-32-3	**877-32-1**	34		Tab	**0.74**	18.8	**0.125**	3.2				
877-33-3	**877-33-1**	34		Tab	**0.74**	18.8	**0.25**	6.4				

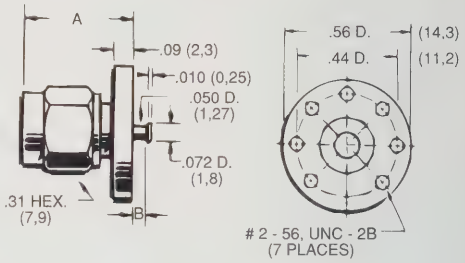


FIGURE 32

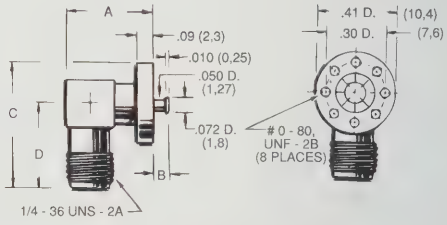


FIGURE 33

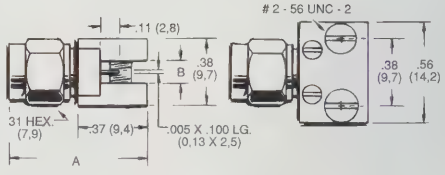


FIGURE 34

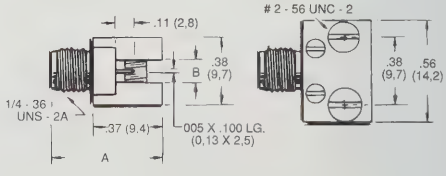


FIGURE 35

ADAPTERS WITHIN SERIES / ACCESSORIES

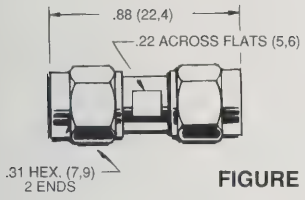


FIGURE 36

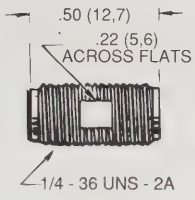


FIGURE 37

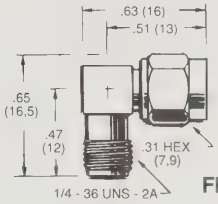


FIGURE 38

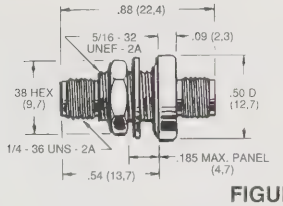


FIGURE 39

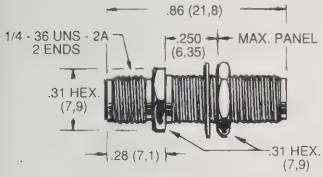


FIGURE 40

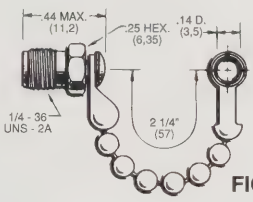


FIGURE 41

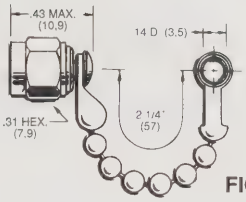


FIGURE 42

FIGURE 43

FIGURE 44

FIGURE 45

FIGURE 46

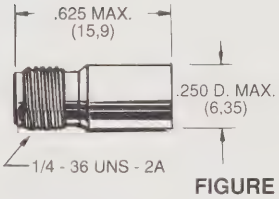


FIGURE 47

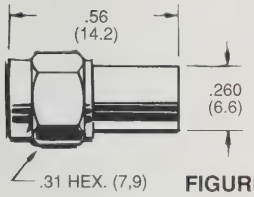
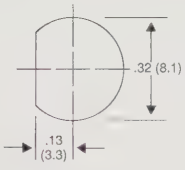
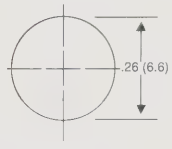


FIGURE 48



MTG. HOLE A



MTG. HOLE B

ADAPTERS WITHIN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	MTG. HOLE
PASSIVATED FINISH	GOLD PLATE FINISH					
879-1-3	**879-1-1**		38	Plug-Jack	Right Angle	
879-2-3	**879-2-1**		36	Plug-Plug		
879-3-3	**879-3-1**		37	Jack-Jack		
879-12-3	**879-12-1**		39	Jack-Jack	Bulkhead	A
879-13-3	**879-13-1**		40	Jack-Jack	Bulkhead	B

ACCESSORIES

878-1-3			41		Cap — Female with Bead Chain	
878-2-3			42		Cap — Male with Bead Chain	
878-3-3			43		Cap — Male	
878-4-3			44		Cap — Female	
1333-1-3			45		Shorting Cap — Female	
1335-1-3			46		Shorting Cap — Male	
1333-2-3		M39030/3-06N	47		Termination, Female, 50 ohm, 1/2 watt	
1335-7-3		M39030/3-02N	48		Termination, Male, 50 ohm, 1/2 watt	

Contact factory for additional qualified terminations.

DESCRIPTION/SPECIFICATIONS/INTERFACE DIMENSIONS

Kings K-Loc series connectors are a lightweight connector designed to replace BNC type connectors where maximum density is required. They feature a positive lock with quick connect and release mating, which is ideally suited for instrumentation front panel connections which are used in medical and nuclear electronics applications. Once mated, K-Loc connectors provide a minimum retention force of 40 pounds. They are a crimp design with an assembly time comparable to BNC types. K-Loc coaxial connectors meet National Bureau of Standards specification ND-549.

CABLE GROUPS — RG/U, M17		
A		178, 178A, 178B, 196, 196A, M17/93-RG178, M17/93-00001
B	B-1	174, 188, 188A, 316, M17/119-RG174, M17/138-00001,
		M17/113-RG316
	B-2	179A, 179B, 187, 187A, M17/94-RG179, M17/136-00001
C	C-1	122, M17/54-RG122
	C-2	180, 180A, 180B, 195, 195A, M17/95-RG180, M17/137-00001
	C-3	Essex 21-597, Belden 8218
D		58*, 58A*, 58C, 141, 141A, M17/28-RG58, M17/111-RG303
E	E-1	55A, 142, 142A, 223, 400, M17/84-RG223, M17/60-RG142,
		M17/128-RG400
	E-2	55*,55B*, 142B, M17/84-RG223, M17/60-RG142
G	G-1	59, 59A, 59B, 62, 62A, 62B, 62C, 210, M17/29-RG59,
		M17/30-RG62, M17/97-RG210
	G-2	71, 71A, 71B, M17/90-RG71

*For these cables, crimping the center contact is not recommended when crimp contact is indicated.
†Armored.

In addition to the coaxial units, there are 2 and 4 pin connectors that have an equal number of male and female contacts which are properly mated by Keyed insulators.

All Kings K-Loc connectors are interchangeable with equivalent Lemo types.

SPECIFICATIONS

ELECTRICAL

Nominal Impedance	50 ohms
Voltage Rating	500 volts rms
Dielectric Withstanding Voltage	1500 volts rms
Insulation Resistance	5000 megohms
Contact Resistance	6 milliohms

ENVIRONMENTAL

Temperature Range	PTFE Insulators: –85°F to +329°F (–65°C to +165°C) Valox Insulators: –99°F to +302°F (–73°C to +150°C)
Corrosion (salt spray)	MIL-STD-202 Method 101, Cond. B

MECHANICAL

Mating	Positive Lock — quick connect and quick release
Cable Retention	10 to 40 lbs. depending on cable size.
Connector Durabililty	500 cycles min.

MATERIAL

Except as noted in connector listings

Bodies & Body Components	1. Brass, QQ-B-626, Alloy 360, 1/2 hard. 2. Beryllium Copper, QQ-C-530, Cond. HT.
Crimp Sleeves	Commercial Bronze, Alloy 220
Male Center Contacts	
coaxial	Brass, QQ-B-626, Alloy 360, 1/2 hard.
2 & 4 pin	Beryllium Copper, QQ-C-530, Cond. HT
Female Center Contacts	Beryllium Copper QQ-C-530, Cond. HT
Insulators:	
coaxial	PTFE, ASTM D1457
2 & 4 pin	Valox 420 SEO Thermoplastic polyester resin

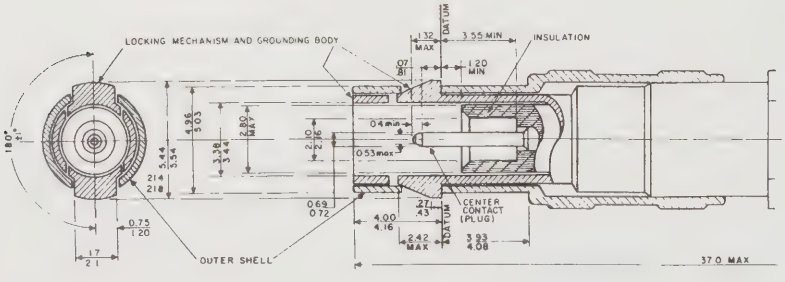
FINISHES

Contacts — center and outer	.0001" (.0025 mm) min. hard gold plate, MIL-G-45204B
All other metal parts	Kings TR-5® tarnish resistant alloy electrodeposit finish.

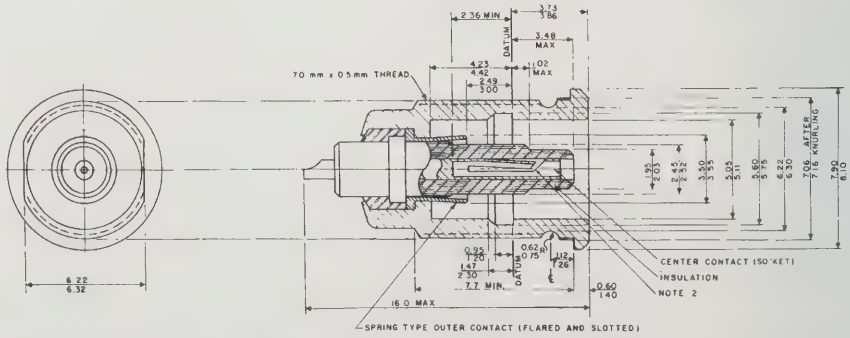
Specifications are typical and may not apply to all connectors.

INTERFACE — Per NBS ND-549 (Coaxial Units)

PLUG



JACK



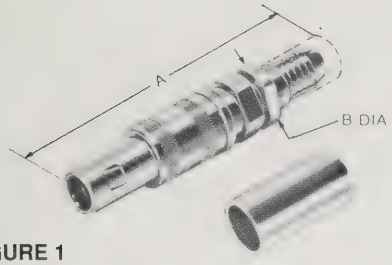


FIGURE 1

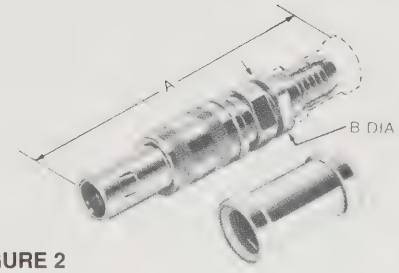


FIGURE 2

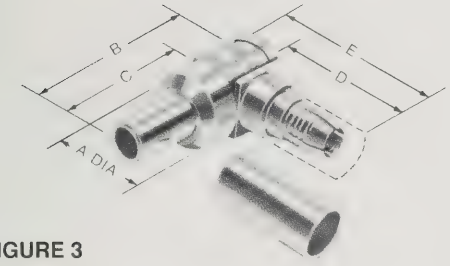


FIGURE 3

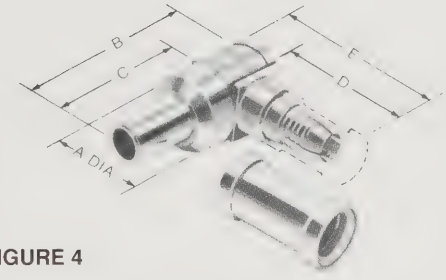


FIGURE 4

STRAIGHT PLUGS — K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
C-1	**1075-3**	1	Crimp Contact	**1.44**	36.6	**0.27**	6.9	458	KTH-2033	KTJ-127	KTD-182
D	**1075-2**	1	Crimp Contact	**1.44**	36.6	**0.27**	6.9	458	KTH-2027	KTJ-70	KTD-49
E-1	**1075-9**	1	Crimp Contact	**1.44**	36.6	**0.27**	6.9	458	KTH-2027	KTJ-70	KTD-49

STRAIGHT PLUGS — WEATHERPROOF K-GRIP, JR. CONSTRUCTION

A	**1075-5**	2									
B-1	**1075-1**	2	Crimp Contact	**1.37**	34.8	**0.27**	6.9	459	KTH-2082	KTJ-106	KTD-154
D	**1075-8**	2	Crimp Contact	**1.47**	37.3	**0.27**	6.9	458	KTH-2087	KTJ-70	KTD-49
G-1	**1075-4**	2	Solder Contact	**1.52**	38.6	**0.34**	8.6	488	KTH-2062	KTJ-159	KTD-189
MICRODOT 293-3913	**1075-7**	2	Solder Contact	**1.47**	37.3	**0.27**	6.9	464	KTH-2075	KTJ-87	KTD-188

ANGLE PLUGS — K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	DIMENSIONS A mm	DIMENSIONS B in	DIMENSIONS B mm	DIMENSIONS C in	DIMENSIONS C mm	DIMENSIONS D in	DIMENSIONS D mm	DIMENSIONS E in	DIMENSIONS E mm	CABLING CBL. TRIM CODE	CABLING CRIMP DIE	CABLING JACKET TRIM JIG	CABLING DIELEC. TRIM JIG
C	**1076-3**	3	Access Type	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.77**	19.6	**0.94**	23.8	435	KTH-2025	KTJ-130	KTD-185
D	**1076-2**	3	Access Type	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.77**	19.6	**0.94**	23.8	435	KTH-2001	KTJ-129	KTD-122

ANGLE PLUGS — WEATHERPROOF K-GRIP, JR. CONSTRUCTION

B	**1076-1**	4	Access Type	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.73**	18.5	**0.91**	23.1	440	KTH-2082	KTJ-100	KTD-165
D	**1076-5**	4	Access Type	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.80**	20.3	**0.98**	24.9	435	KTH-2087	KTJ-129	KTD-122
G-1	**1076-4**	4	Access Type	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.80**	20.3	**0.98**	24.9	498	KTH-2062	KTJ-57	KTD-189

STRAIGHT JACKS / BULKHEAD JACKS

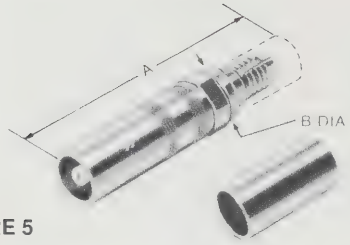


FIGURE 5

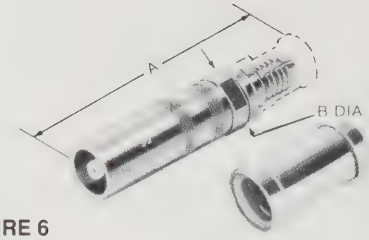


FIGURE 6

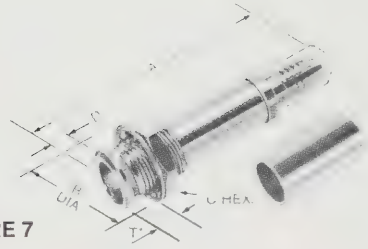
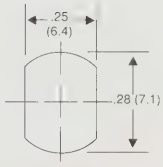


FIGURE 7



MTG. HOLE FOR FIGURES 7 & 8

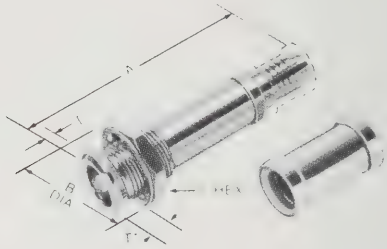


FIGURE 8

STRAIGHT JACKS — K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
C-1	**1073-3**	5	Crimp Contact	**1.39**	35.3	**0.27**	6.9	458	KTH-2033	KTJ-127	KTD-182
D	**1073-2**	5	Crimp Contact	**1.39**	35.3	**0.27**	6.9	458	KTH-2027	KTJ-70	KTD-49
E-1	**1073-7**	5	Crimp Contact	**1.39**	35.3	**0.27**	6.9	458	KTH-2027	KTJ-70	KTD-49

STRAIGHT JACKS — WEATHERPROOF K-GRIP, JR. CONSTRUCTION

A	**1073-4**	6									
B-1	**1073-1**	6	Crimp Contact	**1.33**	33.8	**0.27**	6.9	459	KTH-2082	KTJ-106	KTD-154
D	**1073-6**	6	Crimp Contact	**1.42**	36.1	**0.27**	6.9	458	KTH-2087	KTJ-70	KTD-49
G-1	**1073-5**	6	Solder Contact	**1.48**	37.6	**0.34**	8.6	488	KTH-2062	KTJ-159	KTD-189

BULKHEAD JACKS — K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	CABLING CBL. TRIM CODE	CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG
C-1	**1072-3**	7	Crimp Contact	**1.39**	35.3	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	458	KTH-2033	KTJ-127	KTD-182
D	**1072-2**	7	Crimp Contact	**1.39**	35.3	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	458	KTH-2027	KTJ-70	KTD-49
E-1	**1072-7**	7	Crimp Contact	**1.39**	35.3	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	458	KTH-2027	KTJ-70	KTD-49

BULKHEAD JACKS — WEATHERPROOF K-GRIP, JR. CONSTRUCTION

A	1072-4	8															
B-1	1072-1	8	Crimp Contact	**1.33**	33.8	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	459	KTH-2082	KTJ-106	KTD-154
D	1072-6	8	Crimp Contact	**1.42**	36.1	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	458	KTH-2087	KTJ-70	KTD-49
G-1	1072-5	8	Solder Contact	**1.49**	37.8	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	488	KTH-2062	KTJ-159	KTD-189

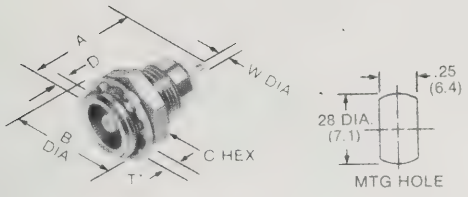


FIGURE 9

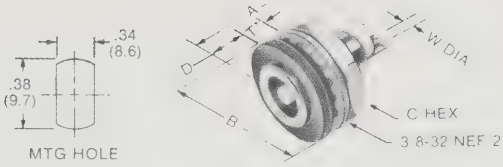


FIGURE 10

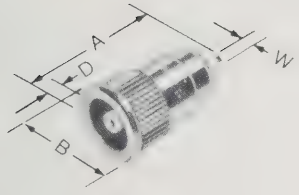


FIGURE 11

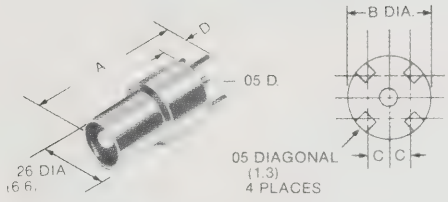


FIGURE 12

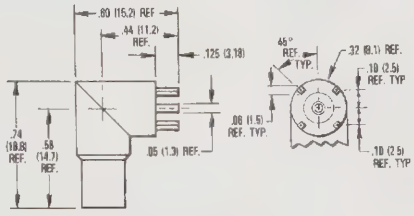


FIGURE 13

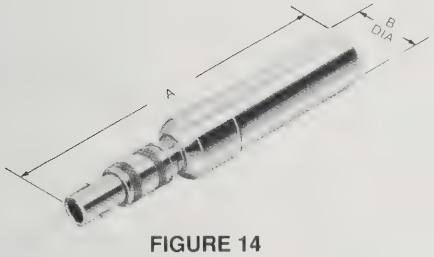


FIGURE 14

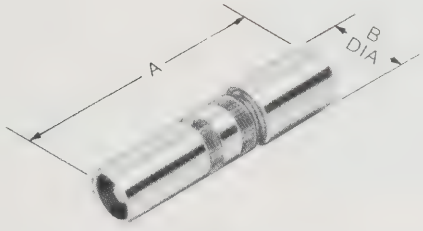


FIGURE 15

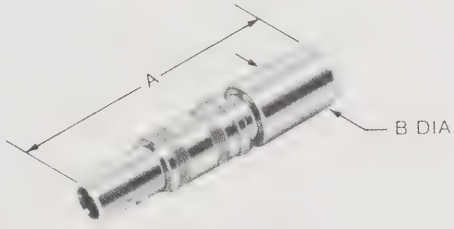


FIGURE 16

RECEPTACLES

KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	W in	W mm
1074-1	9	Front Mounting, Bulkhead	**0.61**	15.5	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0	**0.21**	5.3	**0.03**	0.8
1074-6	9	Same as 1074-1 except uses Spanner Nut (No Lock Washer)	**0.61**	15.5	**0.33**	8.4			**0.04**	1.0	**0.18**	4.6	**0.03**	0.8
1074-2	NS	Front Mounting, Bulkhead, Hermetic Seal												
1074-4	10	Front Mounting, Bulkhead, Isolated Ground	**0.61**	15.5	**0.50**	12.7	**0.50**	12.7	**0.08**	2.0	**0.14**	3.5	**0.03**	0.8
1074-5	11	Front Mounting, Presses into .27 Dia. Panel Cut Out	**0.61**	15.5	**0.31**	7.9			**0.04**	1.0			**0.03**	0.8
1077-1	12	For P.C. Mounting	**0.67**	17.0	**0.32**	8.1	**0.10**	2.5	**0.12**	3.0				
1077-3	13	Right Angle P.C.												

TERMINATIONS

KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm
1720-1	14	Feed through (Plug-Jack) 50 OHM, 1%, 1W	**2.35**	59.7	**0.41**	10.4
1723-1	15	Female 50 OHM, 1%, 1/4W	**1.15**	29.2	**0.28**	7.1
1725-1	16	Male 50 OHM, 1%, 1/4W	**1.19**	30.2	**0.28**	7.1

ATTENUATORS / POWER DIVIDERS
CABLE ASSEMBLIES / ACCESSORIES

POWER DIVIDERS

KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm
1850-1	18	Jack-Plug-Jack	**0.27**	6.9	**2.25**	57.2	**1.13**	28.7	**1.19**	30.2	**1.44**	36.6
1850-2	19	Jack-Jack-Jack	**0.34**	8.6	**2.33**	59.2	**1.17**	29.7	**1.16**	29.5	**1.41**	35.8

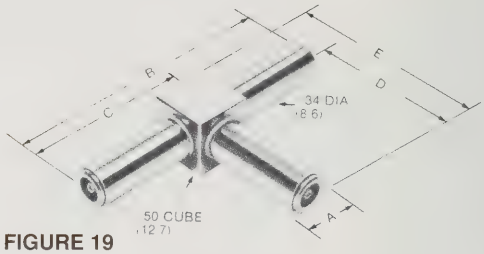


FIGURE 19

ATTENUATORS — 50 OHM 2 WATT

KINGS PART NO. / TR-5 FINISH	FIG. NO.	NOTES	DIMENSIONS A in	A mm	B in	B mm
1840-1	17	3Db MF ± .45Db TO 2 GHz	**2.18**	55.4	**0.38**	9.5
1840-2	17	6Db MF ± .45Db TO 2 GHz	**2.18**	55.4	**0.38**	9.5
1840-3	17	10Db MF ± .45Db TO 2 GHz	**2.18**	55.4	**0.38**	9.5
1840-4	17	20Db MF ± .45Db TO 2 GHz	**2.18**	55.4	**0.38**	9.5
1840-5	17	14Db MF ± .45Db TO 2 GHz	**2.18**	55.4	**0.38**	9.5

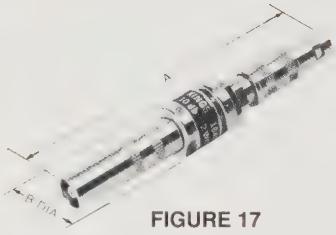


FIGURE 17

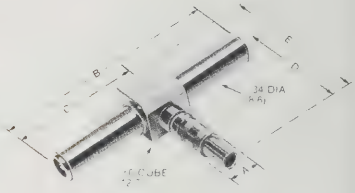
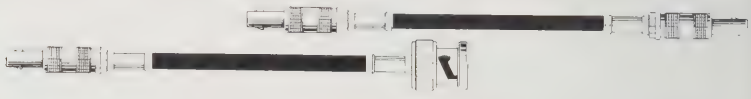


FIGURE 18

CABLE ASSEMBLIES



CABLE ASSEMBLIES

NANO SECONDS†		1	2	3	4	5	6	7	8	9	10
DESCRIPTION											
(2) 1075-1, RG-174/U	**KINGS**	**K-4870**	**K-4871**	**K-4882**	**K-4883**	**K-4884**	**K-4885**	**K-4886**	**K-4887**	**K-4888**	**K-4889**
(2) 1075-1, RG-188A/U	**PART**	**K-5803**	**K-5804**	**K-5805**	**K-5806**	**K-5807**					
*(1) 1075-1, (1) KC-59-281 RG-174/U	**NOS.**					**K-5800**					

LENGTH††		0'6" .15M	1'0" .30M	2'0" .61M	2'6" .76M	3'0" .91M	4'0" 1.22M	5'0" 1.52M	6'0" 1.83M	8'0" 2.44M	10'0" 3.05M	12'0" 3.66M
DESCRIPTION												
(2) 1075-1, RG-174/U	**KINGS**	**K-5849**	**K-5850**	**K-4891**	**K-4865**		**K-5859**	**K-4866**	**K-5860**		**K-4867**	
*(1) 1075-1, (1) KC-59-281 RG-174/U	**PART NOS.**	**K-5851**	**K-4843**	**K-4844**	**K-4868**	**K-5843**	**K-5813**	**K-4845**	**K-5842**	**K-5852**	**K-4869**	**K-5841**

†† Additional lengths available upon request. ***K-Loc BNC cable assembly.** **†Additional NANO seconds available upon request.**

ACCESSORIES

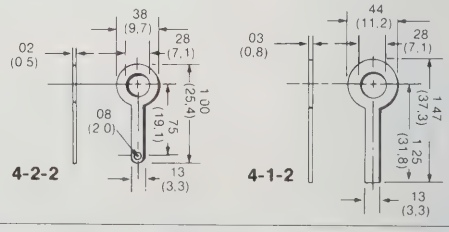
K-LOC HOOD

PART NO. 1078-1-4

OPTIONAL GROUND TAB

PART NO. 4-1-2
STEEL

PART NO. 4-2-2
BRASS



ADAPTERS WITHIN SERIES
2 & 4 PIN CONNECTORS

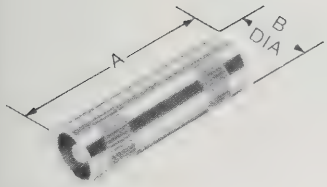


FIGURE 20

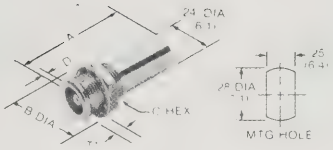


FIGURE 21

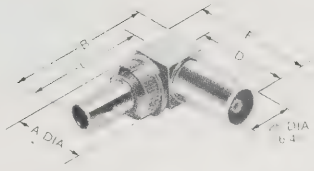


FIGURE 22

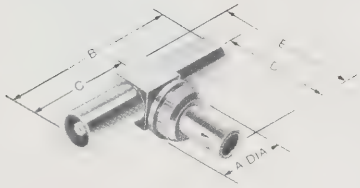


FIGURE 23

ADAPTERS WITHIN SERIES

KINGS PART NO. / TR-5 FINISH	FIG. NO.	ADAPTER ENDS	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	E in	E mm	t in	t mm
1079-5	20	Jack-Jack	**0.82**	20.8	**0.25**	6.4								
1079-7	21	Jack-Jack	**0.82**	20.8	**0.40**	10.2	**0.34**	8.6	**0.04**	1.0			**0.21**	5.3
1079-6	22	Plug-Jack	**0.38**	9.7	**0.82**	20.8	**0.68**	17.3	**0.59**	15.0	**0.78**	19.8		
1079-1	23	Jack-Plug-Jack	**0.38**	9.7	**1.19**	30.2	**0.59**	15.0	**0.68**	17.3	**0.82**	20.8		

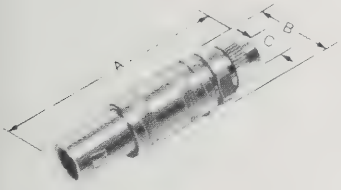


FIGURE 24

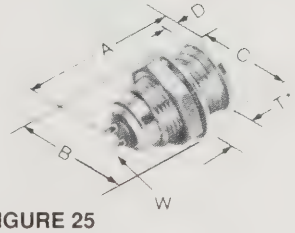
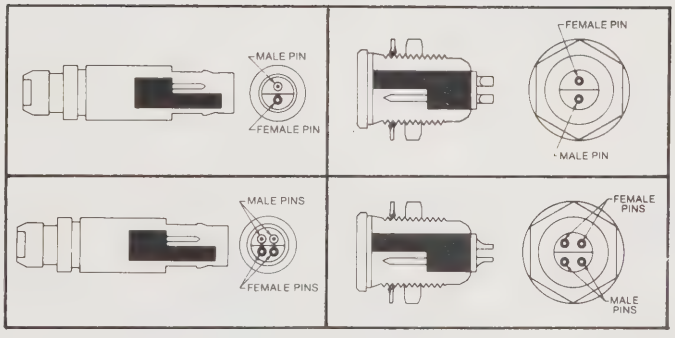


FIGURE 25



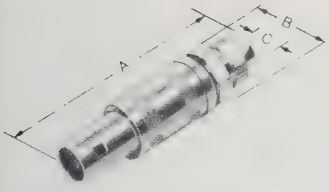


FIGURE 26

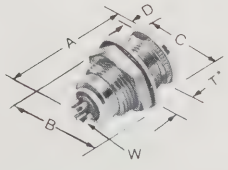
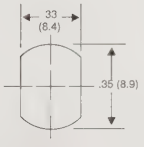


FIGURE 27



MTG. HOLE FOR FIGURES 25 & 27

2 PIN CONNECTORS

KINGS PART NO. / TR-5 FINISH	FIG. NO.	TYPE	DIMENSIONS A in	A mm	B in	B mm	C in	C mm	D in	D mm	t in	t mm	W in	W mm	CABLING CBL. TRIM CODE	MAX. DIA. CABLE JACKET	MAX DIA. CABLE CTR. COND.
1885-1	24	Plug	**1.37**	34.8	**0.35**	8.9	**0.17**	4.3							2501	**0.160** 4.1	**0.029** 0.7
1884-1	25	Bulkhead Receptacle	**0.68**	17.3	**0.44**	11.2	**0.39**	9.9	**0.05**	1.3	**0.288**	7.3	**0.03**	0.8			

4 PIN CONNECTORS

1905-1	26	Plug	**1.37**	34.8	**0.35**	8.9	**0.17**	4.3							2501	**0.160** 4.1	**0.023** 0.6
1904-1	27	Bulkhead Receptacle	**0.68**	17.3	**0.50**	12.7	**0.39**	9.9	**0.05**	1.3	**0.288**	7.3	**0.03**	0.8			

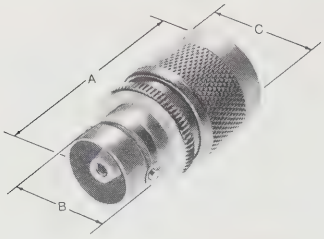


FIGURE 1

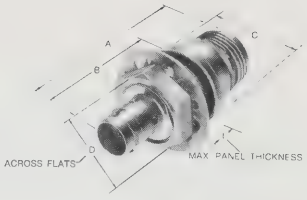


FIGURE 2

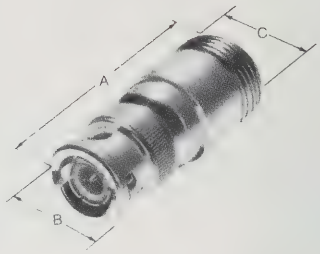


FIGURE 3

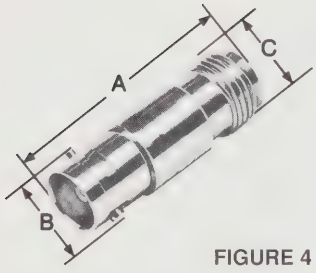


FIGURE 4

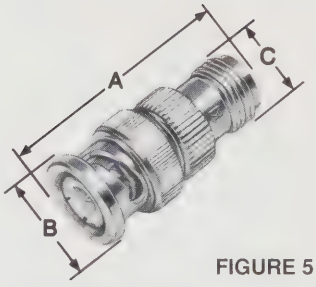


FIGURE 5

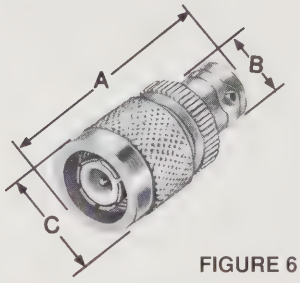


FIGURE 6

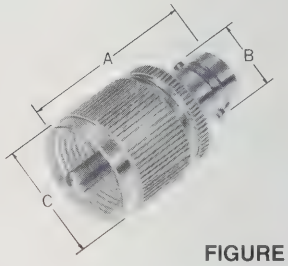


FIGURE 7

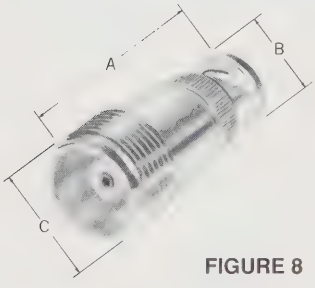


FIGURE 8

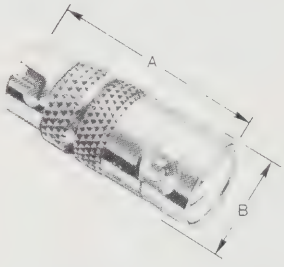


FIGURE 9

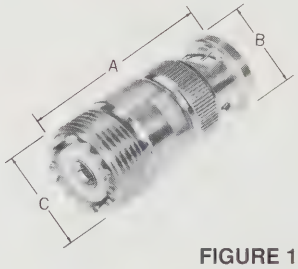
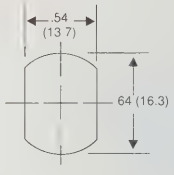


FIGURE 10



MTG. HOLE A

ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
1209-7		M55339/20-00201	1	**BNC Jack-N Plug**		**1.31**	33.3	**0.44**	11.2	**0.79**	20.1					
1209-17		M55339/25-00606	2	**BNC Jack-N Jack**	Pressurized O-Ring Seal	**1.71**	43.4	**1.03**	26.2	**0.88**	22.4	**0.75**	19.1	**0.357**	9.1	A
1209-18		M55339/49-00349	3	**BNC Plug-N Jack**		**1.48**	37.6	**0.56**	14.2	**0.62**	15.7					
KA-91-09	**KA-99-57**		4	**BNC Jack-TNC Jack**		**1.28**	32.5	**0.44**	11.2	**0.44**	11.2					
KA-91-10	**KA-99-39**		5	**BNC Plug-TNC Jack**		**1.25**	31.8	**0.56**	14.2	**0.44**	11.2					
KA-91-18	**KA-99-59**		6	**BNC Jack-TNC Plug**		**1.25**	31.8	**0.59**	15.0	**0.44**	11.2					
KC-99-02	**KC-99-42**		7	**BNC Jack-UHF Plug**		**1.33**	33.8	**0.44**	11.2	**0.72**	18.3					
KH-99-04	**KH-99-13**		8	**BNC Plug-HN Jack**		**1.55**	39.4	**0.56**	14.2	**0.75**	19.1					
KM-91-03	**KM-99-05**		9	**BNC Jack-KM Jack**		**0.94**	23.9	**0.44**	11.2							
UG-201A/U	**KN-99-35**		1	**BNC Jack-N Plug**		**1.31**	33.3	**0.44**	11.2	**0.79**	20.1					
UG-255/U	**KC-99-27**		10	**BNC Plug-UHF Jack**	Rexolite Insulation	**1.31**	33.3	**0.56**	14.2	**0.63**	16.0					
UG-255A/U	**KC-99-41**		10	**BNC Plug-UHF Jack**		**1.31**	33.3	**0.56**	14.2	**0.63**	16.0					

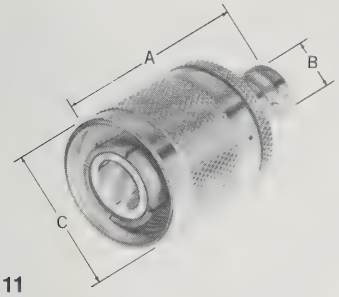


FIGURE 11

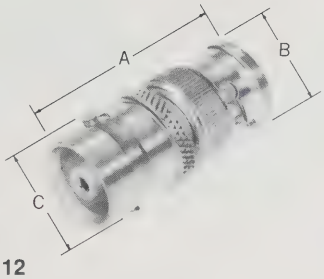


FIGURE 12

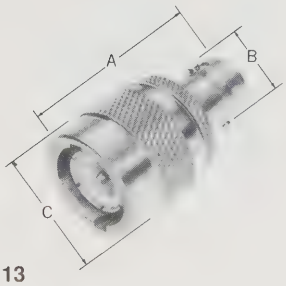


FIGURE 13

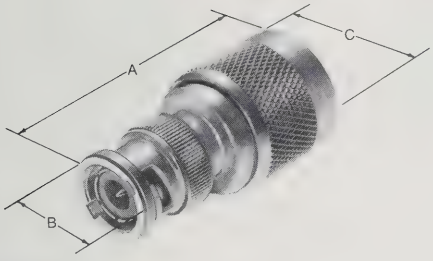


FIGURE 14

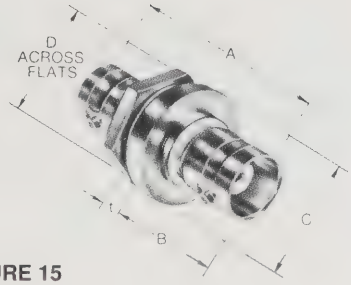


FIGURE 15

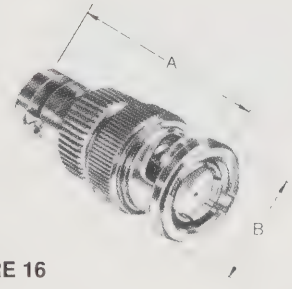


FIGURE 16

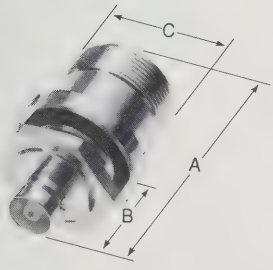
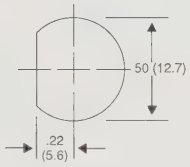
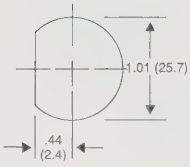


FIGURE 17



MTG. HOLE B



MTG. HOLE C

ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
					A		B		C		D		t		
SILVER FINISH	TR-5 FINISH				in	mm	in	mm	in	mm	in	mm	in	mm	
UG-273/U	KC-99-34	7	BNC Jack-UHF Plug	Rexolite Insulation	1.33	33.8	0.44	11.2	0.72	18.3					
UG-309/U	KH-99-16	11	BNC Jack-HN Plug		1.50	38.1	0.44	11.2	0.85	21.6					
UG-349A/U		3	BNC Plug-N Jack		1.56	39.6	0.56	14.2	0.63	16.0					
UG-349B/U	KN-99-46	3	BNC Plug-N Jack		1.48	37.6	0.56	14.2	0.63	16.0					
UG-606/U	KN-91-17-M06	2	BNC Jack-N Jack	Pressurized-Gasket Seal, Rexolite Ins.	1.75	44.5	1.02	25.9	0.81	20.6	0.75	19.1	0.242	6.2	A
UG-635/U		12	BNC Plug-C Jack		1.27	32.3	0.56	14.2	0.59	15.0					
UG-636A/U		13	BNC Jack-C Plug		1.21	30.7	0.44	11.2	0.75	19.1					
UG-1034/U	KC-99-36	14	BNC Plug-N Plug		1.50	38.1	0.56	14.2	0.79	20.1					
	1969-1	15	BNC Jck-TRB 2 Std. Jck.		1.31	33.3	0.69	17.5	0.69	17.5	0.63	16.0	0.100	2.5	B
	2019-1	16	TWBNC Plg-TRB 2 Std. Jck.		1.25	31.8	0.56	14.2							
UG-1287/U		17	C Jack-LC Jack	Bulkhead	2.28	57.9	0.97	24.6	1.50	38.1			0.287	7.3	C
UG-1288/U		NS	C Jack-LC Jack												

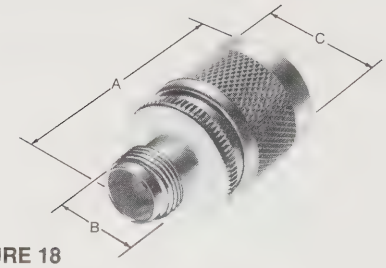


FIGURE 18

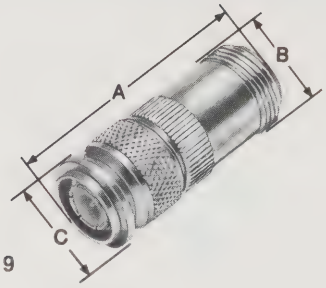


FIGURE 19

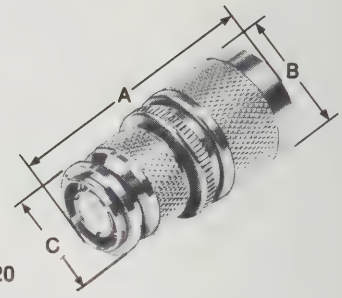


FIGURE 20

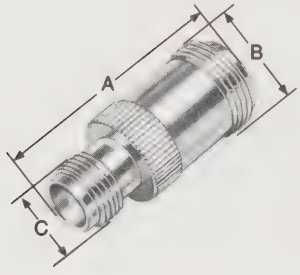


FIGURE 21

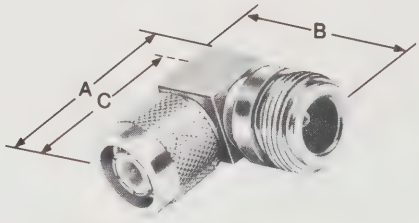


FIGURE 22

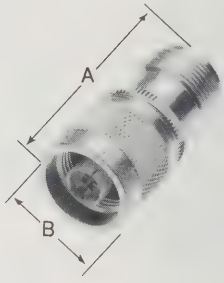
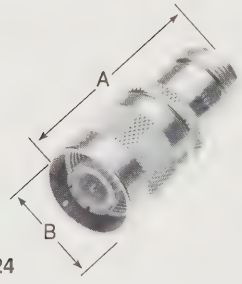


FIGURE 23



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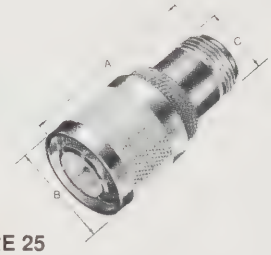

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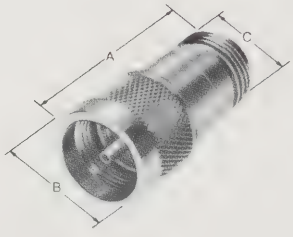


FIGURE 26

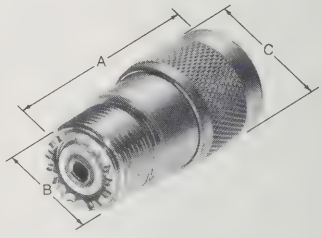


FIGURE 27

ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	MTG. HOLE
1209-20		M55339/51-00001	18	**N Plug-TNC Jack**		**1.31**	33.3	**0.44**	11.2	**0.78**	19.8					
KA-91-07	**KA-99-38**		18	**N Plug-TNC Jack**		**1.31**	33.3	**0.44**	11.2	**0.78**	19.8					
KA-91-08	**KA-99-49**		19	**N Jack-TNC Plug**	Wire Holes	**1.56**	39.6	**0.63**	16.0	**0.59**	15.0					
KA-91-17	**KA-99-99**		19	**N Jack-TNC Plug**		**1.56**	39.6	**0.63**	16.0	**0.59**	15.0					
KA-91-20	**KA-91-20-M06**		20	**N Plug-TNC Plug**		**1.49**	37.9	**0.79**	20.1	**0.59**	15.0					
KA-99-24			21	**N Jack-TNC Jack**		**1.39**	35.3	**0.63**	16.0	**0.44**	11.2					
KA-99-35			22	**N Jack-TNC Plug**	Wire Holes	**1.19**	30.2	**1.19**	30.2	**0.87**	22.1					
KG-99-11			24	**N Jack-SC Plug**		**1.69**	42.9	**0.78**	19.8							
KG-99-12			23	**N Plug-SC Jack**		**1.50**	38.1	**0.79**	20.1							
KH-99-09			25	**N Jack-HN Plug**		**1.58**	40.1	**0.88**	22.4	**0.63**	16.0					
UG-83B/U	**KN-99-57**		26	**N Jack-UHF Plug**		**1.54**	39.1	**0.78**	19.8	**0.63**	16.0					
UG-146A/U	**KN-99-36**		27	**N Plug-UHF Jack**	Wire Holes	**1.16**	29.5	**0.63**	16.0	**0.78**	19.8					
UG-270A/U			NS	**N Jack-LC Jack**												

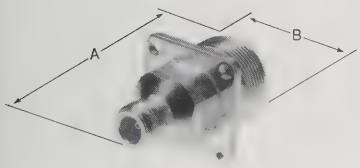


FIGURE 28

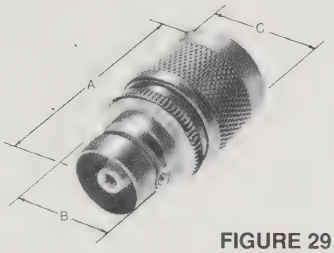


FIGURE 29

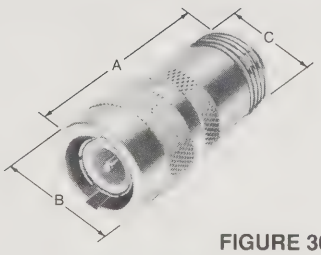


FIGURE 30

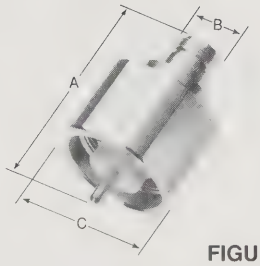


FIGURE 31

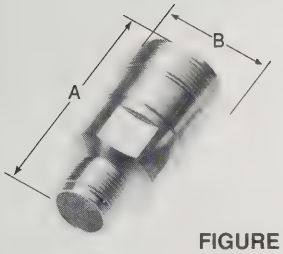


FIGURE 32

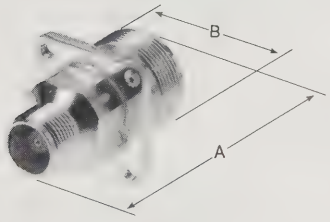


FIGURE 33

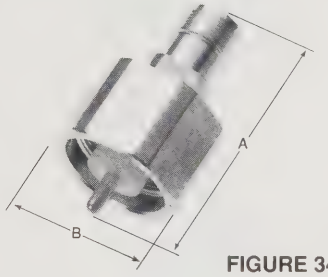


FIGURE 34

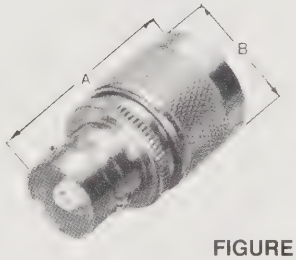


FIGURE 35

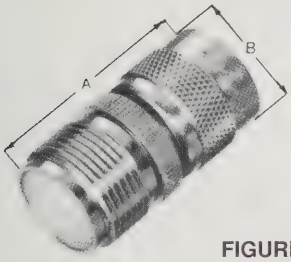
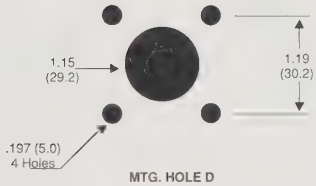
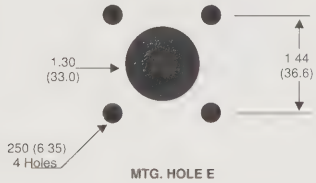


FIGURE 36



MTG. HOLE D



MTG. HOLE E

ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
UG-271A/U			28	**N Jack-LC Jack**	Panel	**2.20**	55.9	**1.25**	31.8							D
UG-564/U	**KD-99-20**		29	**N Plug-C Jack**		**1.38**	35.1	**0.60**	15.2	**0.78**	19.8					
UG-565A/U			30	**N Jack-C Plug**		**1.52**	38.6	**0.75**	19.1	**0.63**	16.0					
UG-999A/U			31	**N Jack-LC Plug**		**2.22**	56.4	**0.63**	16.0	**1.50**	38.1					
KH-99-12			NS	**HN Jack-LC Plug**												
UG-217A/U	**KH-99-15**		32	**HN Jack-LC Jack**		**2.21**	56.1	**1.25**	31.8							
UG-218A			NS	**HN Jack-LC Plug**	Right Angle											
UG-259A			33	**HN Jack-LC Jack**	Panel	**2.20**	55.9	**1.25**	31.8							D
UG-497A/U			34	**HN Jack-LC Plug**		**2.83**	71.9	**1.50**	38.1							
UG-702/U			35	**HN Plug-C Jack**		**1.53**	38.9	**0.84**	21.3							
UG-703/U			36	**HN Jack-C Plug**		**1.45**	36.8	**0.75**	19.1							
UG-703A/U			36	**HN Jack-C Plug**		**1.45**	36.8	**0.75**	19.1							
UG-586/U			NS	**LC Jack-LT Jack**												
UG-587/U			NS	**LC Jack-LT Jack**	Panel											E

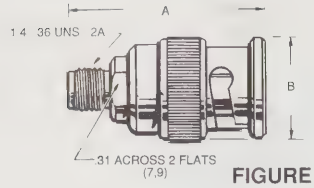


FIGURE 37

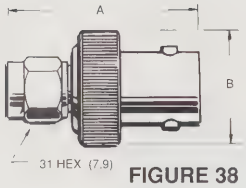


FIGURE 38

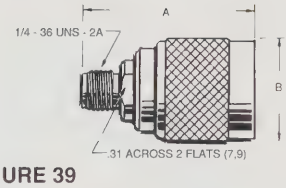


FIGURE 39

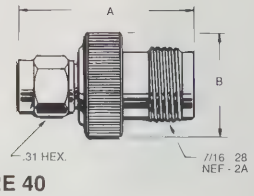


FIGURE 40

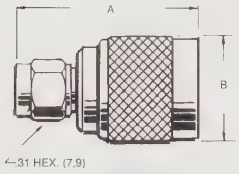


FIGURE 41

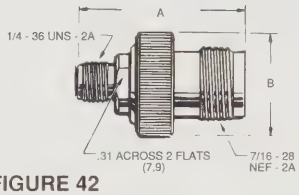


FIGURE 42

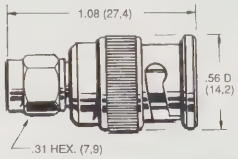


FIGURE 43

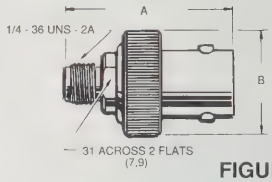


FIGURE 44

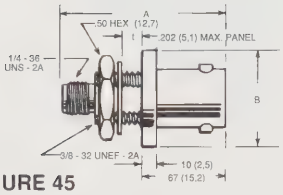


FIGURE 45

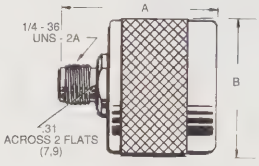


FIGURE 46

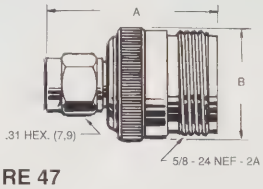


FIGURE 47

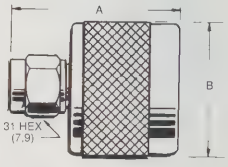


FIGURE 48

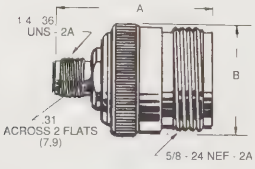


FIGURE 49

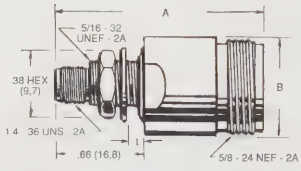


FIGURE 50

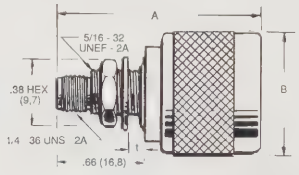
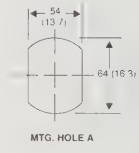


FIGURE 51



ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
879-4-15-MA9			37	**SMA Jack-BNC Plug**		**1.04**	26.4	**0.56**	14.2							
879-5-15-MA9			38	**SMA Plug-BNC Jack**		**1.02**	26.0	**0.59**	15.0							
879-6-15-MA9			39	**SMA Jack-TNC Plug**		**1.04**	26.4	**0.59**	15.0							
879-7-15-MA9			40	**SMA Plug-TNC Jack**		**1.02**	26.0	**0.59**	15.0							
879-8-15-MA9			41	**SMA Plug-TNC Plug**		**1.08**	27.4	**0.59**	15.0							
879-9-15-MA9			42	**SMA Jack-TNC Jack**		**0.98**	24.9	**0.59**	15.0							
879-10-15-MA9			43	**SMA Plug-BNC Plug**		**1.08**	27.4	**0.56**	14.2							
879-11-15-MA9			44	**SMA Jack-BNC Jack**		**1.02**	25.9	**0.59**	15.0							
879-14-15-MA9			45	**SMA Jack-BNC Jack**		**1.20**	30.5	**0.59**	15.0					**0.202**	5.1	B
1209-1-15-MA9			46	**SMA Jack-N Plug**		**1.04**	26.4	**0.80**	20.3							
1209-2-15-MA9			47	**SMA Plug-N Jack**		**1.04**	26.4	**0.67**	17.0							
1209-3-15-MA9			48	**SMA Plug-N Plug**		**1.08**	27.4	**0.80**	20.3							
1209-4-15-MA9			49	**SMA Jack-N Jack**		**1.00**	25.4	**0.67**	17.0							
1209-5-15-MA9			50	**SMA Jack-N Jack**		**1.59**	40.4	**0.67**	17.0					**0.221**	5.6	A
1209-6-15-MA9			51	**SMA Jack-N Plug**		**1.47**	37.3	**0.80**	20.3					**0.189**	4.8	A

ADAPTERS BETWEEN SERIES

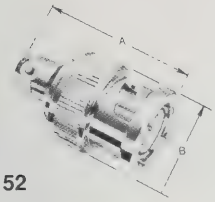


FIGURE 52

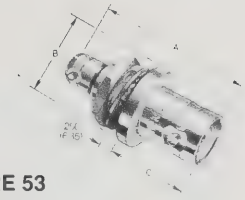


FIGURE 53

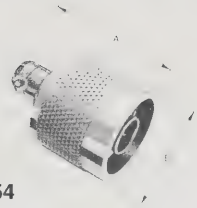
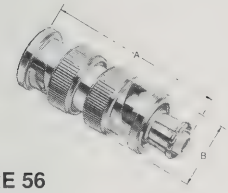


FIGURE 54

FIGURE 55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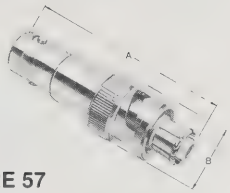
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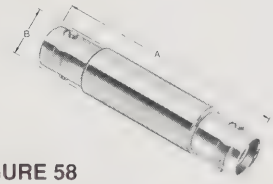


FIGURE 58

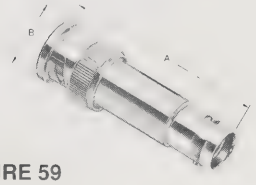


FIGURE 59

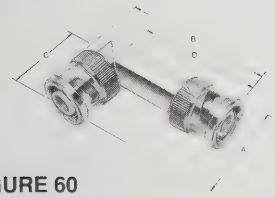


FIGURE 60

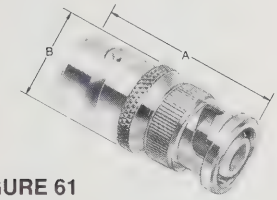


FIGURE 61

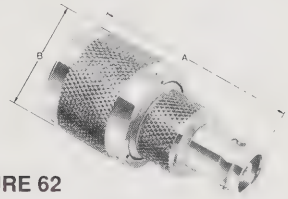


FIGURE 62

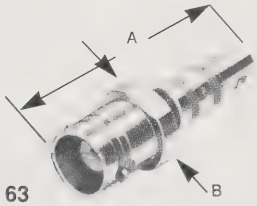


FIGURE 63

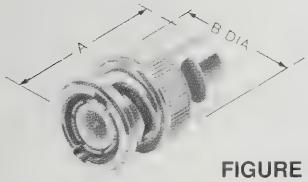


FIGURE 64

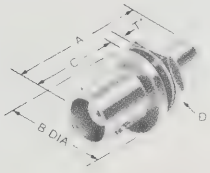


FIGURE 65

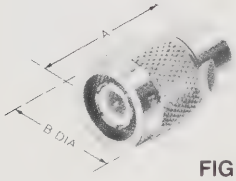


FIGURE 66

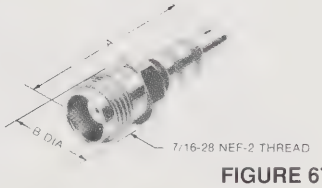


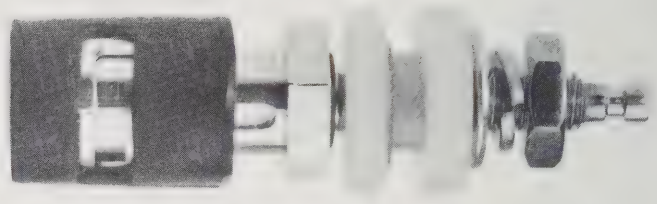
FIGURE 67

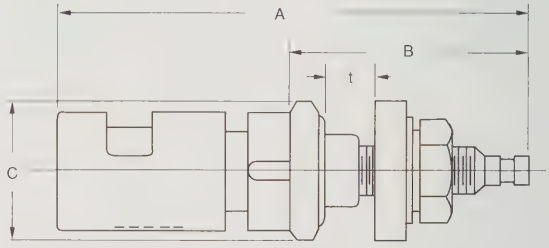
ADAPTERS BETWEEN SERIES

KINGS PART NUMBER		MILITARY NUMBER (SILVER ONLY)	FIG. NO.	ADAPTER ENDS	NOTES	DIMENSIONS										MTG. HOLE
						A		B		C		D		t		
SILVER FINISH	TR-5 FINISH					in	mm	in	mm	in	mm	in	mm	in	mm	
KM-91-04			52	KM Jack-BNC Plug		1.00	25.4	0.56	14.2							
KM-91-05			53	KM Jack-BNC Jack	Hermetic Seal, Bulkhead	1.11	28.2	0.60	15.2					0.250	6.5	B
KM-91-11			54	KM Jack-N Plug		1.22	31.0	0.78	19.8							
KM-91-12			55	KM Jack-N Jack		1.30	33.0	0.59	15.0							
	1709-7		56	SHV Plug-MHV Plug		1.61	40.9	0.56	14.2							
	1709-8		57	SHV Plug-MHV Jack	MHV Polarized	1.75	44.5	0.56	14.2							
	1709-9		58	SHV Jack-MHV Jack		1.78	45.2	0.44	11.2							
	1709-10		59	SHV Jack-MHV Plug		1.64	41.7	0.56	14.2							
	KV-99-27		60	MHV Plug-BNC Plug		1.17	29.7	1.80	45.7	0.89	22.6	1.52	38.6			
KV-99-11	KV-99-32		62	MHV Jack-HN Plug	MHV Polarized	1.76	44.7	0.88	22.4							
KV-99-18	KV-99-34		61	MHV Plug-C Jack		1.31	33.3	0.59	15.0							
	1079-2		63	K-LOC Plug-BNC Jack		1.40	35.6	0.56	14.2							
	1079-3		64	K-LOC Jack-BNC Plug		0.93	23.6	0.56	14.2							
	1079-4		65	K-LOC Jack-BNC Jack	Bulkhead	1.07	27.2	0.60	15.2	0.52	13.2	0.50	12.7	0.14	3.5	
	1079-8		66	K-LOC Jack-TNC Plug		0.93	23.6	0.59	15.0							
	1079-9		67	K-LOC Plug-TNC Jack		1.40	35.6	0.56	14.2							

BINDING POSTS

These are spring-loaded binding posts that meet the requirements of MIL-P-55149/8. Silicone rubber O-rings provide a water resistant seal when mounted in panels from .062 inch (1.57 mm) to .125 inch (3.18 mm) thick. 10-32 hex nut and lockwasher is included. Material in brass.



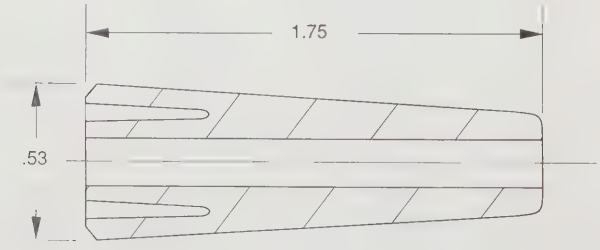


K-GRIP, JR. CONSTRUCTION

CABLE GROUP	KINGS PART NUMBER FINISH SILVER	KINGS PART NUMBER FINISH NICKEL	MILITARY NUMBER NO.	NOTES	CAP COLOR	DIMENSIONS A in.	A mm	B in.	B mm	C (Flange OD) in.	C (Flange OD) mm	t in.	t mm	MTG. HOLE
.062 MAX. Wire Size	**K-952-D**		U-106/U	Panel O-Ring	Black	**1.96**	49.8	**1.00**	25.4	**0.58**	14.7	**0.125**	3.2	A
.062 MAX. Wire Size		**K-952AA**	MIL-P-55149/8B Type PB08NA02	Panel O-Ring	Red	**2.00**	50.8	**1.00**	25.4	**0.58**	14.7	**0.125**	3.2	A
.062 MAX. Wire Size		**K-952Z**	MIL-P-55149/8B Type PB08NA01	Panel O-Ring	Black	**2.00**	50.8	**1.00**	25.4	**0.58**	14.7	**0.125**	3.2	A

FLEXIBOOTS

These strain-relief Flexiboots protect the cable from wear, fatigue and weather. Their ten different colors give a convenient key that allows the user to identify the length of cable assemblies or to match the right cable to the right jack. The Flexiboots have a unique patented double-gripping action that assures a positive hold on Kings K-Grip Jr. connectors. They are available for use with RG58/U, 59/U and 174/U cable sizes. Material is Buna N rubber for -01 to -09 items, and compound AO10C (flame res. per UL-94V2) for -10 items. Flexiboots are manufactured under patent number 3911203.

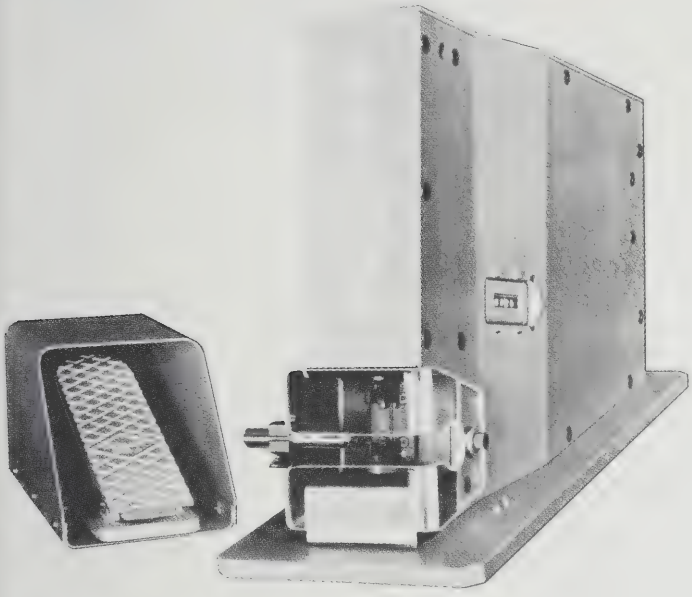


KINGS PART NUMBERS

	CABLE		
COLOR	RG-58/U	RG-59/U	RG-174/U
Brown	**1-1483-01**	**1-1464-01**	**1-1490-01**
Red	**1-1483-02**	**1-1464-02**	**1-1490-02**
Orange	**1-1483-03**	**1-1464-03**	**1-1490-03**
Yellow	**1-1483-04**	**1-1464-04**	**1-1490-04**
Green	**1-1483-05**	**1-1464-05**	**1-1490-05**
Blue	**1-1483-06**	**1-1464-06**	**1-1490-06**
Violet	**1-1483-07**	**1-1464-07**	**1-1490-07**
Gray	**1-1483-08**	**1-1464-08**	**1-1490-08**
White	**1-1483-09**	**1-1464-09**	**1-1490-09**
Black	**1-1483-10**	**1-1464-10**	**1-1490-10**

PNEUMATIC CRIMPING MACHINE KTM-3000

The Kings KTM-3000 pneumatic crimping machine provides an effective and safe means for crimping RF cable connectors. It uses standard Kings KTH-2000 series dies, which fit directly into the machine. (No additional adapters or jaws are required.) The crimping machine comes completely assembled and ready for use. All that is required is the attachment of hose fitting, assembly of specific dies, and connection of the hose fitting to air source.



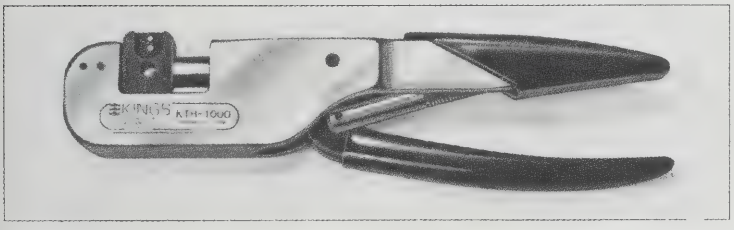
FEATURES

- Automatic power crimping at low cost.
- High crimping forces achieved thru an air cylinder/toggle mechanism. (in excess of 30,000 pounds)
- Force elements are completely enclosed.
- Ideal for long or short production runs.
- Dies for holepunching, notching, forming, stamping can be adapted.
- Foot control to free operators hands for crimping operation.
- Fast and easy changing from one crimping die to another.
- Machine returns to open position automatically.
- Contact and connector stops for uniform crimping.
- Portable, bench mounted, no permanent lines attached.
- Low maintenance.
- Designed with OSHA safety requirements in mind.

SPECIFICATIONS

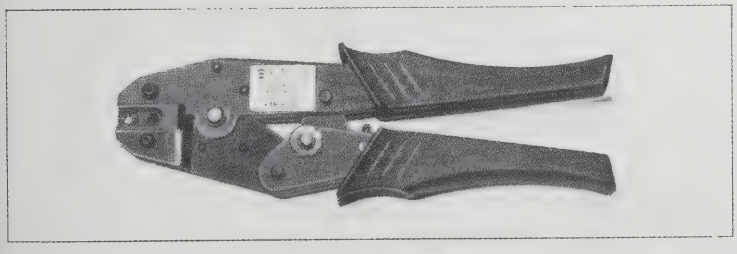
Air Supply	80-120 psi with filter
Crimping Cycle	Approx. 4 seconds
Maximum Opening Between Dies	11/16 inch
Input Coupling	Quick Disconnect, female, 1/4 NPT
Overall Dimensions	11" x 15" x 6"
Weight	28 lbs.

HAND CRIMPING TOOLS



KTH-1000

- Interchangeable Dies.
  Utilizes KTH-2000 series die sets.
- Ratchet type tool.
  Does not release until crimp is complete.
- Frame made of heavy duty lightweight aluminum.



KTH-6000

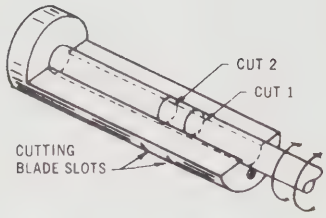
- Interchangeable Dies.
  Utilizes KTH-6000 series die sets.
- Ratchet type tool.
  Does not release until crimp is complete.
- Frame made of heavy duty steel.

NOTE: Gauges (Go, No Go) are available for all crimp tool die cavities. Consult factory.

TRIM JIGS

JACKET TRIM JIG

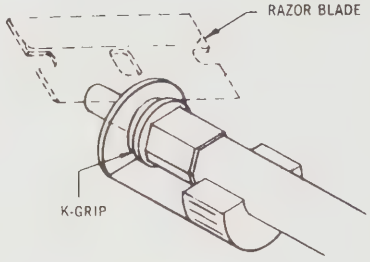
Used for locating jacket and braid trim dimensions. Butt cable against the end of the jig as shown and rotate in the jig while applying light thumb pressure to the cable over the blades.



DIELECTRIC TRIM JIG

(K-Grip® Connectors)

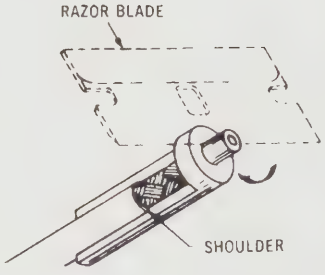
Used for trimming dielectric and center conductor. Butt K-Grip against end of jig with dielectric passing through hole as shown. Trim protruding dielectric off flush with end face of jig to expose center conductor.



DIELECTRIC TRIM JIG

(Standard & Weatherproof K-Grip, Jr.® Connectors)

Used for trimming dielectric and center conductor. Butt cut edge of jacket against shoulder in jig with dielectric passing through hole in end of jig as shown. Trim protruding dielectric off flush with end face of jig to expose center conductor.

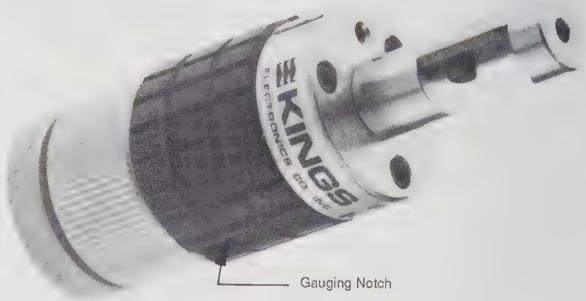


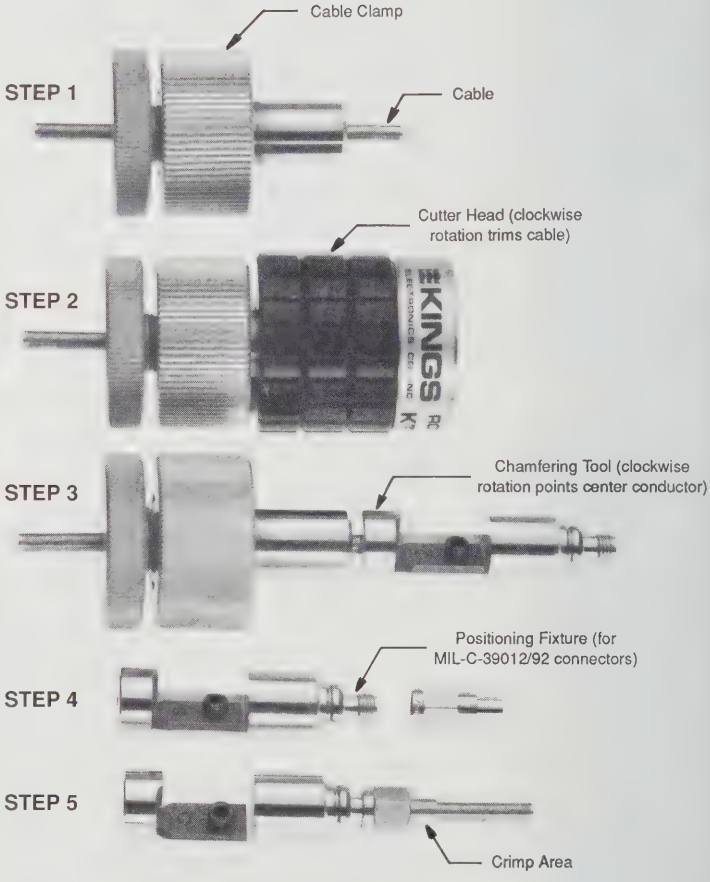
"ROTO-STRIP"® TRIM TOOLS

KINGS TOOL NUMBER KTO-3A FOR .086 semi-rigid cable
KINGS TOOL NUMBER KTO-2A FOR .141 semi-rigid cable

"ROTO-STRIP"® TRIM TOOLS

for the preparation of semi-rigid cables for SMA connectors





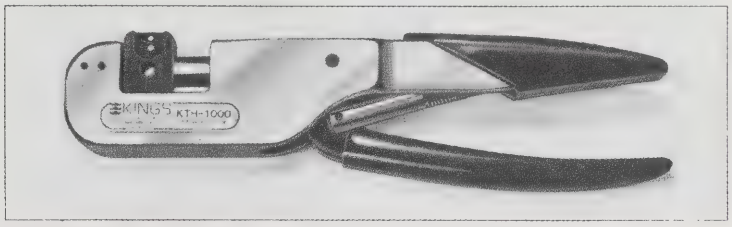
(See Page 157 for operating instructions 3-346)

ROTO-STRIP® is a Registered Trademark of Kings Electronics Co., Inc.

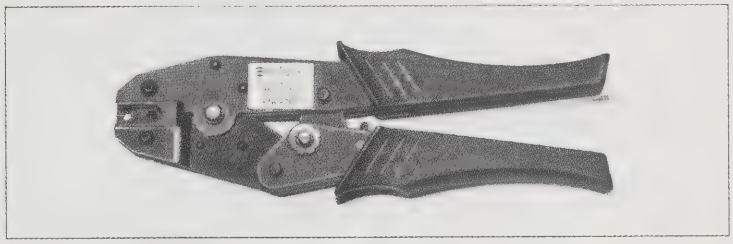
ROTO-STRIP® trim tools are manufactured under patent 4731928.

CRIMP TOOL KITS

Kings' Service Kits contain all of the necessary equipment to terminate an R.F. connector to a cable, quickly and reliably. It is an invaluable aid to servicemen, installers and contractors in the broadcast, computer interconnect and medical electronics service industries.



KTH-1000 TOOL HANDLE WITH KTH-2000 SERIES DIE, (SUPPLIED WITH KSK-1-' KITS)



KTH-6000 TOOL HANDLE WITH KTH-6000 SERIES DIE, (SUPPLIED WITH KSK-6-' KITS)

FEATURES

- Kings' K-Grip Jr.® crimp connectors with TR-5® tarnish resistant finish.
- Full cycle ratchet crimp tool.
- Precision hardened steel die
- Full crimp contacts. (No soldering necessary.)
- Cable preparation trim jigs.
- Complete instructions for rapid, reliable assembly.
- Rugged/durable carrying case with handle.

To order replacement connectors packaged 25/bag, add the following to the connector part number: "Package Code G." **KSK-60 and KSK-10 Kits supplied with Roto-Strip Trim Tool.**

CRIMP TOOL KITS

CABLE	CONNECTOR SERIES	KIT PART NUMBER	CONNECTOR REPLACEMENT NUMBER	CRIMP TOOL	CAVITY CRIMP SIZE		CRIMP DIE	JACKET TRIM JIG	DIELEC. TRIM JIG	CABLE TRIM CODE
					CENTER COND.	BRAID				
RG-174, 179, 187, 188/U	BNC	**KSK-6-6**	**KC-59-95**	KTH-6000			KTH-6032	KTJ-38		406
M17/119-RG174, M17/113-RG316	SMA	**KSK-1-7**	**875-13**	KTH-1000			KTH-2081	KTJ-82	KTD-121	439
M17/119-RG174, M17/094-RG179, M17/113-RG316	K-LOC	**KSK-6-3**	**1075-1**	KTH-6000			KTH-6082	KTJ-106	KTD-154	459
RG-180/U	BNC	**KSK-1-4**	**KC-59-655-M06**	KTH-1000			KTH-2007	KTJ-41	KTD-98	409
RG-58, 58A, 58C, 141, 141A/U	BNC	**KSK-7-4**	**KC-59-291**	KTH-7000	.069	.213		KTJ-57	KTD-25	401
RG-58, 58A, 58C, 141, 141A/U	BNC	**KSK-1-9**	**KC-59-291**	KTH-1000			KTH-2001	KTJ-57	KTD-25	401
RG-58, 58A, 58C, 141, 141A/U	BNC	**KSK-1-8**	**KC-59-195**	KTH-1000			KTH-2001	KTJ-57	KTD-25	401
RG-58, 58A, 58C, 141, 141A/U	BNC	**KSK-1-12**	**KC-59-123**	KTH-1000			KTH-2001	KTJ-57	KTD-25	401
RG-58, 58A, 58C, 141, 141A/U	TNC	**KSK-7-5**	**KA-59-225**	KTH-7000	.069	.213		KTJ-57	KTD-25	401
RG-58, 58A, 58C, 141, 141A/U	UHF	**KSK-7-6**	**KU-59-53**	KTH-7000	.100	.213		KTJ-69	KTD-34	410
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	BNC	**KSK-7-1**	**KC-59-294**	KTH-7000	.069	.255		KTJ-57	KTD-26	401
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	BNC	**KSK-7-8**	**KC-59-465**	KTH-7000	.069	.255		KTJ-57	KTD-26	401
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	BNC	**KSK-6-8**	**KC-59-294**	KTH-6000			KTH-6029	KTJ-57	KTD-26	401
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	BNC	**KSK-1-13**	**KC-59-294**	KTH-1000			KTH-2002	KTJ-57	KTD-26	401
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	TNC	**KSK-7-3**	**KA-59-385-M06**	KTH-7000	.069	.255		KTJ-57	KTD-26	401
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	N	**KSK-7-2**	**KN-59-273**	KTH-7000	.100	.255		KTJ-162	KTD-123	489
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	UHF	**KSK-7-7**	**KU-59-54**	KTH-7000	.100	.255		KTJ-69	KTD-33	410
RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210/U	UHF	**KSK-1-14**	**KU-59-35**	KTH-1000			KTH-2002	KTJ-69	KTD-33	410
RG-8, 8A, 213/U	N	**KSK-1-6**	**KN-59-201**	KTH-1000			KTH-2004	KTJ-137	KTD-138	480
RG-9, 9A, 9B, 214/U	N	**KSK-1-11**	**KN-59-104**	KTH-1000			KTH-2004	KTJ-74	KTD-28	402
BELDEN 8281, WE 724	BNC	**KSK-6-4**	**KC-59-299**	KTH-6000			KTH-6010	KTJ-43	KTD-30	424
BELDEN 8281, WE 724	BNC	**KSK-1-3**	**KC-59-299**	KTH-1000			KTH-2010	KTJ-43	KTD-30	424
BELDEN 8279	BNC	**KSK-6-1**	**KC-59-397**	KTH-6000			KTH-6029	KTJ-134	KTD-26	477
BELDEN 9259	BNC	**KSK-6-2**	**KC-59-482**	KTH-6000			KTH-6029	KTJ-57	KTD-26	401
BELDEN 9880	TNC	**KSK-1-1***	**KA-59-400-M06**	KTH-1000			KTH-2004	KTJ-137	KTD-232	480
BELDEN 9880	N	**KSK-1-2**	**KN-59-357-M06**	KTH-1000			KTH-2004	KTJ-137	KTD-232	480
.141 SR, M17/130-RG402	SMA	**KSK-60-1**	**875-47-3**	KTH-6000			KTH-6145	KTO-2A	KTO-2A	3-346
.141 SR, M17/130-RG402	SMA	**KSK-10-1**	**875-47-3**	KTH-1000			KTH-2145	KTO-2A	KTO-2A	3-346
.086 SR, M17/133-RG405	SMA	**KSK-60-2**	**875-60-3**	KTH-6000			KTH-6145	KTO-3A	KTO-3A	3-346
.086 SR, M17/133-RG405	SMA	**KSK-10-2**	**875-60-3**	KTH-1000			KTH-2145	KTO-3A	KTO-3A	3-346

For RG-62 type cables use KTD-27 Dielectric Trim Jig ***Solder type contact**

INDEX

TO LOCATE THE CABLING PROCEDURE FOR A SPECIFIC CONNECTOR, LOOK UP THE CABLE TRIM CODE FOR THAT CONNECTOR IN THE CONNECTOR LISTINGS, THEN FIND THE PAGE FOR THE CABLING PROCEDURE IN THIS INDEX.

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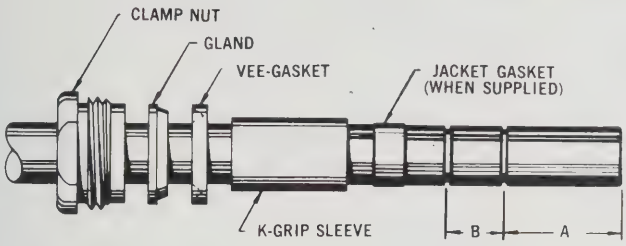
ALL DIMENSIONS IN CABLING PROCEDURES ARE IN INCHES.

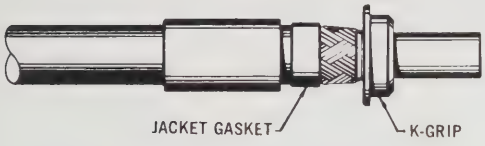
CABLING PROCEDURE

CP-200A



1. Cut cable end square, slide K-GRIP sleeve and back end parts over jacket. Using jacket trim jig, make cuts A and B in jacket.

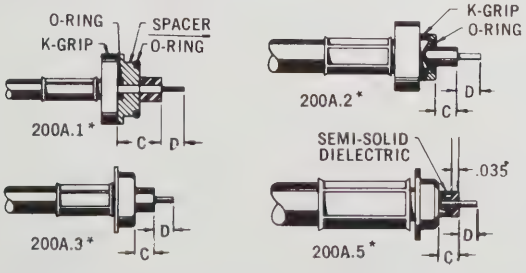
2. Remove jacket to dimension "A." Flare or bulge back braid. Trim with scissors at edge of jacket.



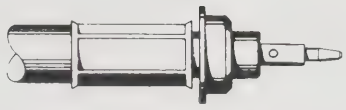
3. Remove jacket to dimension "B." Push K-GRIP over dielectric and under braid. Slide jacket gasket, when provided, forward to position flush with jacket edge. (When the "B" dimension in the trim code is 0, push the K-GRIP under both braid and jacket, butting braid against flange of K-GRIP. Teflon jackets may be slit axially ¼" in the two places to facilitate entry of the K-GRIP.)

4. Slide K-GRIP sleeve against flange on K-GRIP Form hex.

5. With dielectric trim jig, trim dielectric to dimension "C." Cut center conductor to dimension "D." Assemble internal O-ring seals and spacer, when provided, as shown below. When cable positioning insulators are used, adjust trim code dimensions as shown below, and assemble as indicated.

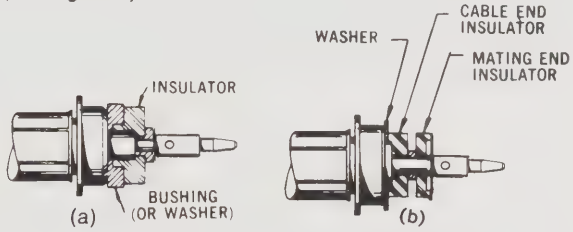


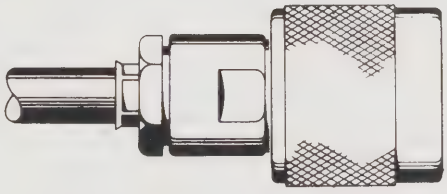
*Use appropriate dimensions from trim code chart at right.



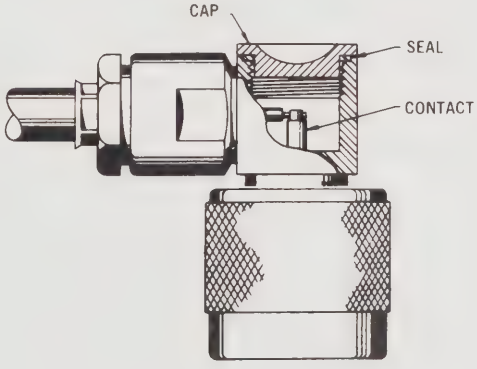
6. Solder or crimp contact to center conductor. For access type angle connectors, omit this step and proceed to step 7.

For captive contacts: (a) assemble bushing and insulator. Attach contact or (b) assemble washer and larger (cable end) insulator. Attach contact. Assemble smaller (mating end) insulator.





7. Thread assembly into connector and lock securely. Vee gasket must be split by braid clamp.



8. For access type angle connectors, solder center conductor in contact groove. Close access opening.

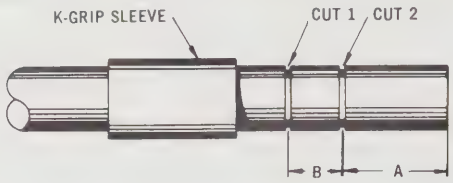
TRIM CODE CHART

CODE	A	B	C	D
201A	1/2	7/32	.110	7/64
204A	5/8	7/32	.118	7/32
207A	9/16	7/32	.118	5/32
208A	29/32	7/32	.298	7/32
209A	19/32	7/32	.043	5/32
211A	35/64	7/32	.045	7/64
225A	3/8	0	.106	7/64
226A	9/16	3/16	.111	7/64
227A	45/64	3/16	.170	3/32
228A	37/64	3/16	.244	7/64
230A	19/32	7/32	.043	3/16
243A	9/32	0	.053	5/64

CABLING PROCEDURE

KINGS

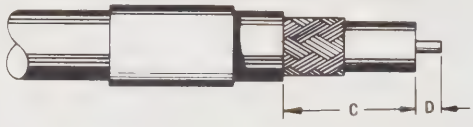
CP-400



1. Cut cable end square, slide K-GRIP sleeve over jacket and with jacket trim jig make cuts 1 and 2 in jacket

2. Remove jackets to dimension "A," flare or bulge back braid and trim with scissors at edge of jacket.

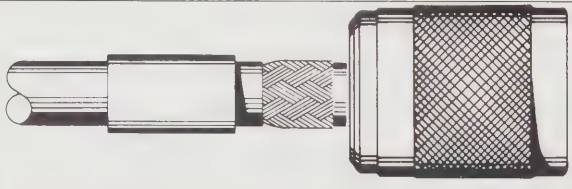
3. Remove jacket to dimension "B."



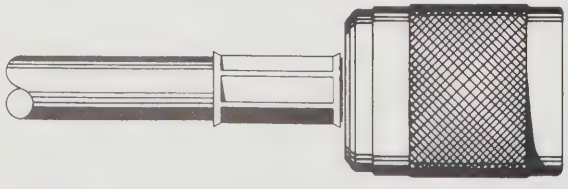
4. Using dielectric trim jig, trim dimension "C." Exposed center conductor length will be equal to dimension "D" of trim code.

5. Solder or crimp contact to center conductor.

5A. For 10 & 20 KV connectors, when Cable Seal Gasket is supplied, place over center conductor and against cable dielectric. Solder contact to center conductor with gasket under compression.

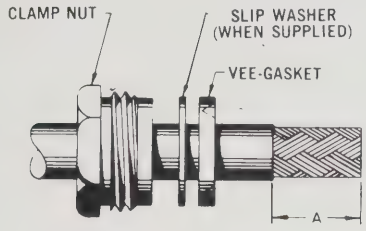


6. Push K-GRIP Jr. over dielectric and under braid until dielectric bottoms in connector. When the "B" dimension in the trim code is 0, the K-GRIP Jr. is pushed under both braid and jacket. Teflon jackets may be slit axially 1/4" in two places to facilitate entry of the K-GRIP. When center contact is undercut captive type, insert cable assembly until insulator detent locks into contact.



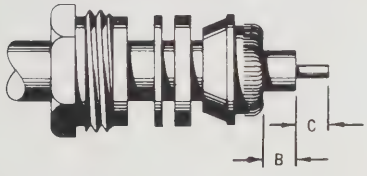
7. Slide K-GRIP sleeve against shoulder on body and form hex by crimping.

TRIM CODE CHART				
CODE	A	B	C	D
401	25/64	3/16	.468	7/64
402	13/32	3/16	.375	7/32
403	7/16	7/32	.493	5/32
405	51/64	3/16	.871	7/64
406	9/32	0	.093	3/16
407	11/16	0	.496	3/16
408	47/64	3/16	.809	7/64
409	21/64	3/16	.406	7/64
410	1	3/16	.562	5/8
413	11/16	3/16	.717	5/32
414	29/64	7/32	.556	7/64
415	1/2	3/16	.530	5/32
417	43/64	7/32	.743	7/64
418	47/64	3/16	.805	7/64
419	29/32	7/32	.984	7/64
421	15/64	0	.150	5/64
424	3/8	3/16	.450	7/64
426	19/64	3/16	.406	5/64
430	1/2	0	.211	1/4
431	9/16	0	.366	3/16
432	17/64	7/32	.390	3/32
433	11/32	3/16	.375	5/32
435	25/64	7/32	.524	5/64
436	35/64	7/32	.512	1/4
439	7/32	7/32	.345	3/32
440	11/32	7/32	.480	5/64
441	3/4	7/32	.772	5/32
447	1-3/64	7/32	.953	9/32
451	1-7/64	7/32	1.018	9/32
452	1-1/8	7/32	.690	5/8
457	47/64	7/32	.764	5/32
458	5/8	7/32	.671	11/64
459	39/64	7/32	.638	3/16
462	5/16	7/32	.437	3/32
464	15/32	7/32	.493	3/16
465	1/4	11/32	.432	5/32
468	25/64	7/32	.501	3/32
469	17/32	7/32	.580	9/64
470	13/32	7/32	.462	5/32
474	15/16	3/16	.890	15/64
475	1-3/4	3/16	1.627	5/16
477	19/64	9/32	.468	7/64
480	9/32	13/32	.500	3/16
484	1-15/64	3/16	.948	15/64
487	27/64	7/32	.550	3/32
488	45/64	7/32	.316	39/64
489	11/32	11/32	.500	3/16
493	1/4	9/32	.390	.140
498	23/64	7/32	.316	17/64
5401	5/16	9/32	.432	5/32
5402	3/8	5/16	.500	3/16
5403	5/8	5/16	.750	3/16
5406	13/32	9/32	.500	3/16
5407	5/16	1/4	.437	1/8
5416	3/4	0	.560	3/16
5417	19/32	1/4	.703	9/64
5425	5/16	0	.187	1/8



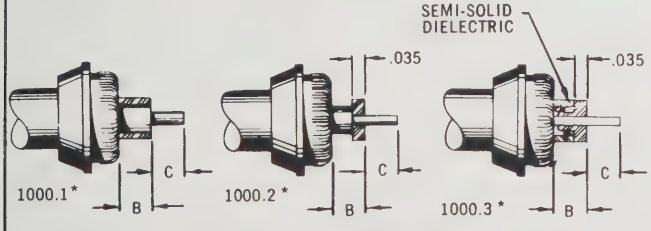
1. Cut cable end square, place clamp-nut, slip washer (when supplied), and gasket over jacket. Remove jacket to dimension "A."

2. Comb out braid and taper forward. Place braid clamp over braid against jacket cut.



3. Fold braid back over braid clamp and trim as shown above. Remove dielectric to dimension "B." Cut center conductor to dimension "C."

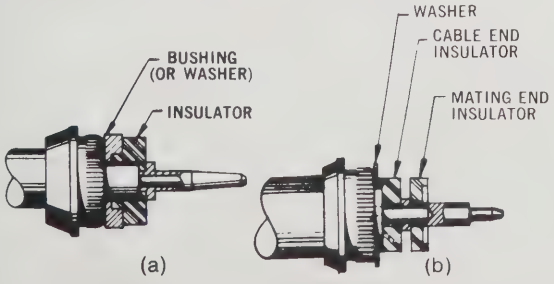
When cable positioning insulators are used adjust trim code dimensions as shown below, and assemble as indicated.

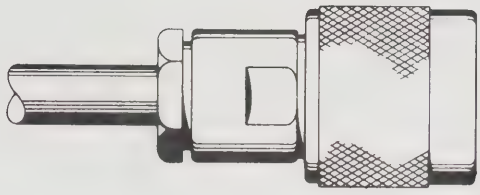


4. Solder contact to center conductor. For access type angle connectors, omit this step and proceed to step 5.

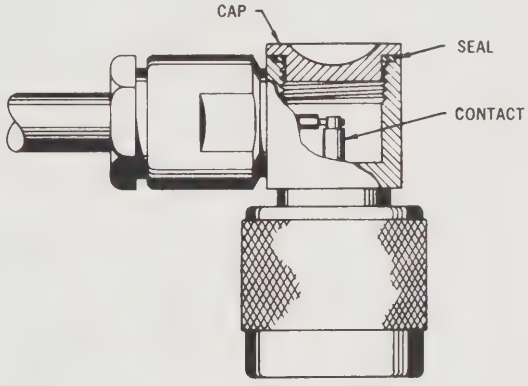
For captive contacts: (a) assemble bushing and insulator, attach contact, or (b) assemble washer and larger (cable end) insulator. Attach contact. Assemble smaller (mating end) insulator.

When center contact is undercut captive type, insert cable assembly until insulator detent locks into contact.





5. Thread assembly into connector, and lock securely. Vee gasket must be split by braid clamp.



6. For access type angle connectors, solder center conductor in contact groove. Close access opening.

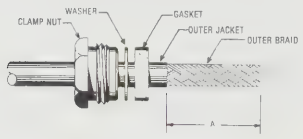
TRIM CODE CHART			
CODE	A	B	C
1001	11/16	.440	7/64
1002	23/32	.470	7/64
1003	11/16	.420	1/8
1004	11/32	.106	7/64
1005	11/32	.040	5/32
1008	3/8	.180	1/16
1012	13/32	.128	5/32
1013	7/16	.170	5/32
1014	7/16	.118	7/32
1015	3/8	.118	5/32
1016	3/8	.046	7/32
1017	13/32	.074	3/16
1018	31/64	.065	7/32
1019	5/8	.371	5/32
1021	3/8	.096	5/32
1022	5/16	.046	5/32
1024	3/8	.046	3/16
1025	13/32	.216	3/32
1030	1/4	.045	3/32
1031	5/8	.296	7/32
1033	19/32	.327	5/32
1042	5/16	.070	1/8
1044	5/16	.105	9/64
1050	19/64	.109	7/64

CABLING PROCEDURE

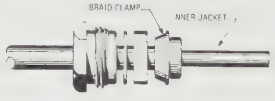
KINGS

CP-1300 / CP-1300A / CP-2400

CP-1300



1. Cut cable end square. Slide clamp nut, washer and gasket over jacket. Remove outer jacket to dimension "A".



2. Place braid clamp over outer braid and against jacket cut. Comb out braid and fold back over braid clamp. Trim as shown.

3. Assemble retainer and insulator over inner jacket. Remove inner jacket to dimension "B".

4. Place braid clamp over inner braid and against inner jacket cut. Comb out braid and fold back over braid clamp. Trim even with base of braid clamp.

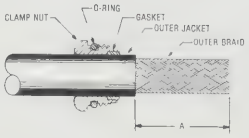
5. Place washer over dielectric against braid. Trim dielectric to dimension "C" and center conductor to dimension "D".

6. Solder center contact to center conductor.

7. Assemble inner insulator, contact and outer insulator, then insert into body. Slide back end parts forward. Thread assembly into connector body and lock securely.

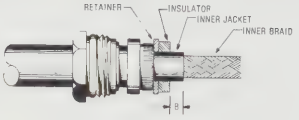
TRIM CODE CHART				
CODE	A	B	C	D
1301	.69	.096	.210	.094
1302	.69	.125	.214	.080
1303	.69	.096	.166	.141

CP-1300A

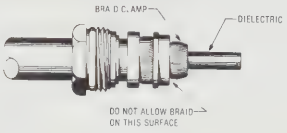


1. Cut cable end square. Assemble O-ring. Slide clamp nut and gasket over jacket. Remove outer jacket to dimension "A".

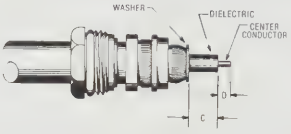
2. Place braid clamp over outer braid and against jacket cut. Comb out braid and fold back over braid clamp. Trim as shown.



3. Assemble retainer and insulator over inner jacket. Remove inner jacket to dimension "B".



4. Place braid clamp over inner braid and against inner jacket cut. Comb out braid and fold back over braid clamp. Trim even with base of braid clamp.



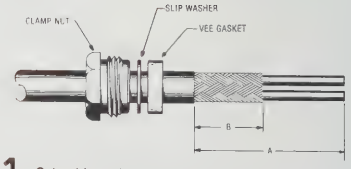
5. Place washer over dielectric against braid. Trim dielectric to dimension "C" and center conductor to dimension "D".

6. Solder center contact to center conductor.

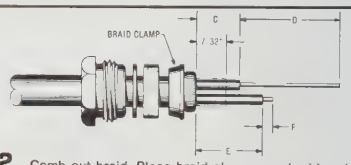
7. Assemble inner insulator, contact and outer insulator, then insert into body. Slide back end parts forward. Thread assembly into connector body and lock securely.

TRIM CODE CHART				
CODE	A	B	C	D
1301A	11/16	.096	.210	3/32

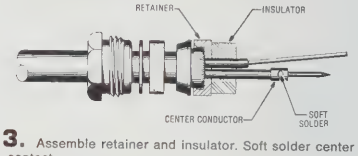
CP-2400



1. Cut cable end square. Slide clamp nut, slip washer and gasket over jacket. Trim jacket and outer braid to dimensions "A" and "B" respectively.



2. Comb out braid. Place braid clamp over braid and against jacket cut. Fold braid back over braid clamp and trim as shown. Trim dielectrics and inner conductors to dimensions indicated. *For cable with woven cloth layer, trim as indicated.



3. Assemble retainer and insulator. Soft solder center contact.

4. Insert assembly into inner insulator with remaining conductor extended through slot.

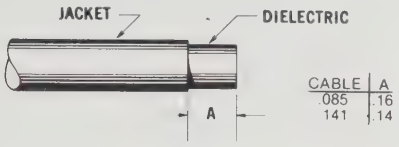
5. Assemble intermediate contact against insulator. Wrap remaining conductor tightly around intermediate contact and soft solder.

6. Assemble outer insulator over intermediate contact. Thread assembly into connector, and lock securely. "Vee" gasket must be split by braid clamp.

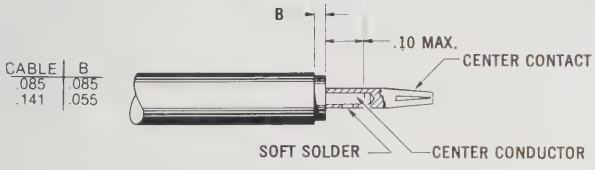
TRIM CODE CHART			
CODE	A	B	C
2401	1-7/8	1/2	5/16
	D	E	F
	1-1/2	31/64	5/64

CABLING PROCEDURE

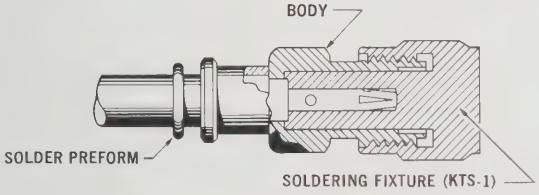
CP-1503-F



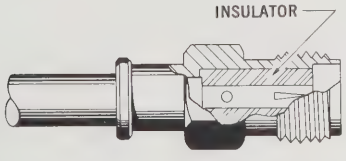
1. Cut cable end square. Using jacket trim jig,score cable all around and remove jacket to A with pliers. (This can also be accomplished by rocking trim jig until the jacket separates at score mark.)



2. Remove dielectric to B from end of jacket, using dielectric trim jig. Shorten center conductor to 10. Place contact over the center conductor and against face of dielectric. Soft solder in position.

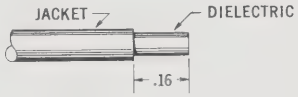


3. Place solder preform on cable, and insert cable into connector until jacket bottoms on internal shoulder of body. Thread solder fixture into connector to act as heat sink. Slide preform down cable and against body. Apply a small amount of non-acid flux, and solder by applying heat to cable jacket approximately ¼" behind preform.

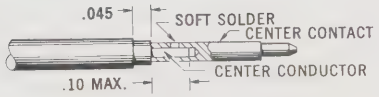


4. Remove solder fixture. Press insulator into body, counterbore end in, until bottomed.

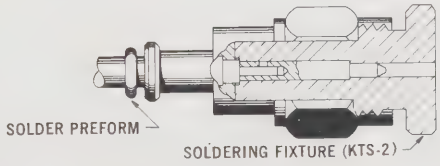
CP-1503-M



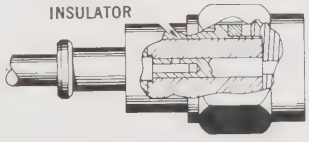
1. Cut cable end square. Using jacket trim jig, score cable all around and remove jacket to .16 with pliers. (This can also be accomplished by rocking trim jig until the jacket separates at score mark.)



2. Remove dielectric to .045 from end of jacket, using dielectric trim jig. Shorten center conductor to .10. Place male contact over center conductor and against face of dielectric. Soft solder in position.



3. Place solder preform on cable, and insert cable into connector until jacket bottoms on internal shoulder of body. Thread solder fixture into connector to act as heat sink. Slide preform down cable and against body. Apply a small amount of non-acid flux, and solder by applying heat to cable jacket approximately ¼" behind preform.

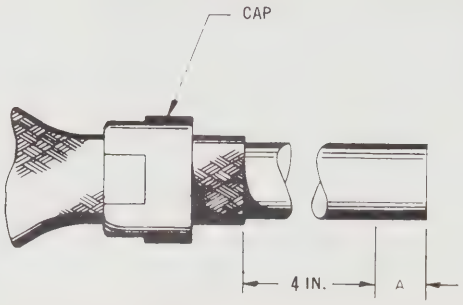


4. Remove solder fixture. Press insulator into body, counterbore end in, until bottomed.

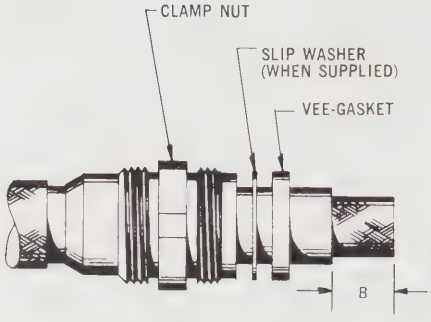
CABLING PROCEDURE

KINGS

CP-1600

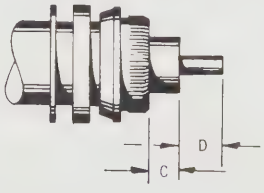


1. Cut cable end square. Slide cap over armor braid. Remove armor to dimension "A" and bulge back approximately 4".



2. Place clamp-nut, slip washer (when supplied), and gasket over jacket. Remove jacket to dimension "B"

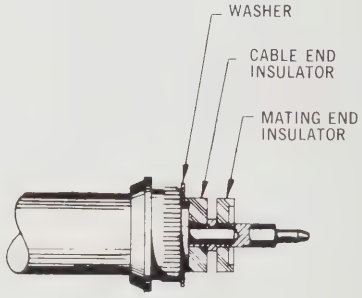
3. Comb out braid and taper forward. Place braid clamp over braid against jacket cut.

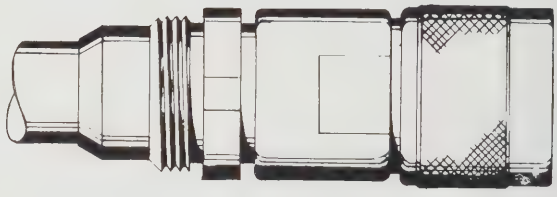


4. Fold braid back over braid clamp and trim as shown above. Remove dielectric to dimension "C". Cut center conductor to dimension "D"

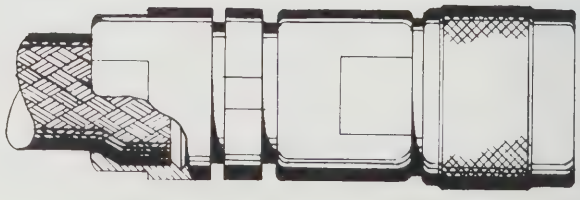
TRIM CODE CHART				
CODE	A	B	C	D
1601	1-5/32	3/8	.046	3/16
1606	1-1/8	9/32	.040	1/8
1607	1-3/32	1/4	.040	3/32
1608	1-5/32	3/8	.046	7/32

5. Solder contact to center conductor. For captive contacts, assemble contact capturing parts on cable before attaching contact as shown below.



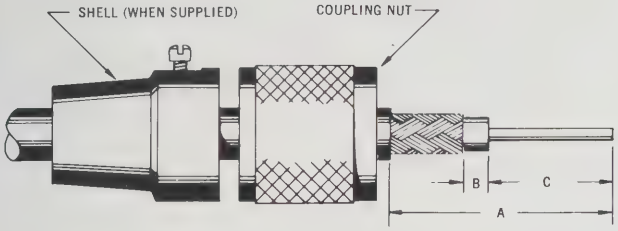


6. Thread assembly into connector, and lock securely. Vee gasket must be split by braid clamp.



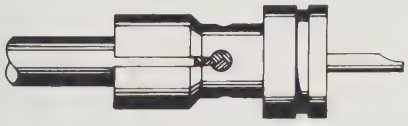
7. Slide armor braid forward over tapered end of nut, and trim as shown. Tighten cap securely with wrench.

CP-1700

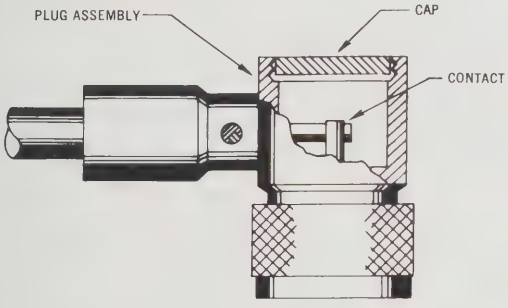


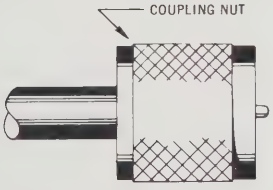
1. Cut cable end square. For straight plugs, slide shell (when supplied) and coupling nut on cable. For angle plugs, proceed to Step 2.

2. Trim cable to dimensions shown. Tin braid and center conductor.

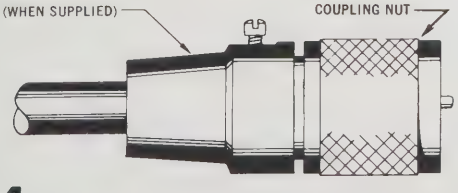


3. Screw plug assembly on cable. Solder braid through solder holes. To avoid deforming dielectric, use minimum heat required to produce good bond. Solder center conductor. Note: To solder center conductor of angle plugs, remove cap in plug assembly. Replace cap after soldering, to complete assembly.





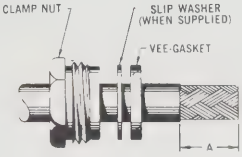
4A. Straight plugs without shell:
Complete assembly by screwing coupling nut over plug assembly.



4B. Straight plugs with shell:
Slide coupling nut over plug assembly. Position shell for free rotation of coupling nut and tighten set screw.

TRIM CODE CHART			
CODE	A	B	C
1701	1-1/8	1/16	5/8

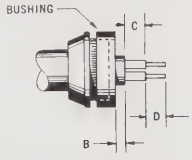
CP-1800



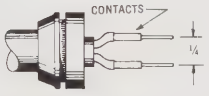
1. Cut cable end square, place clamp-nut, slip washer (when supplied), and gasket over jacket. Remove jacket to dimension "A."

2. Comb out braid and taper forward. Place braid clamp over braid against jacket cut.

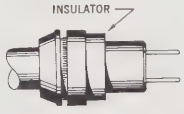
3. Fold braid back over braid clamp and trim as shown above.



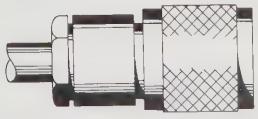
4. Slide bushing over dielectric and butt against braid. Trim dielectric to dimension "B", insulation to dimension "C", and center conductors to dimension "D". Tin center conductors.



5. Butt contacts against insulation and solder to conductors using low melting point colder. Do not overheat insulation or dielectric. Form conductors to bring contacts onto ¼" centers as shown. Apply light film of Dow Corning #4 Ignition Sealing Compound to dielectric surfaces.



6. Assemble insulator over contacts with polarizing keyway properly oriented for the circuit.



7. Thread assembly into connector body, aligning keyway with key, in connector body. Lock securely. Vee gasket must be split by braid clamp.

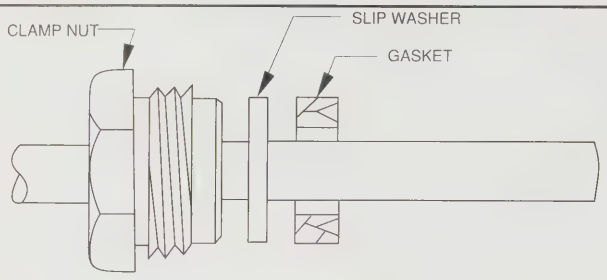
TRIM CODE CHART				
CODE	A	B	C	D
1801	5/8	1/16	5/32	5/32

CABLING PROCEDURE

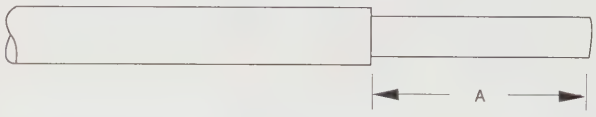
KINGS

CP-700 / CP-1900

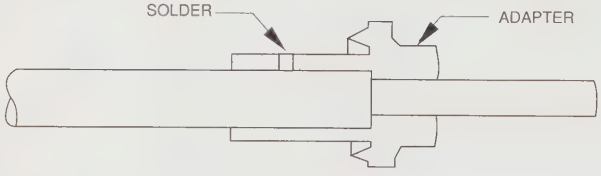
CP-700



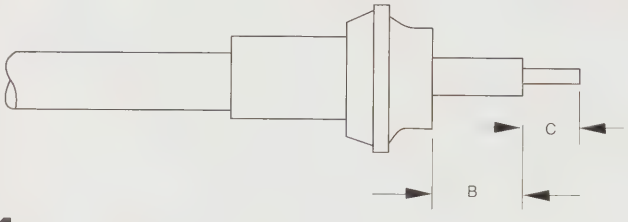
1. Cut cable end square and slide clamp nut, slip washer and gasket over outer conductor.



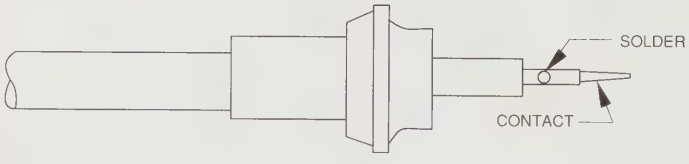
2. Trim outer conductor to "A" dimension without cutting dielectric.



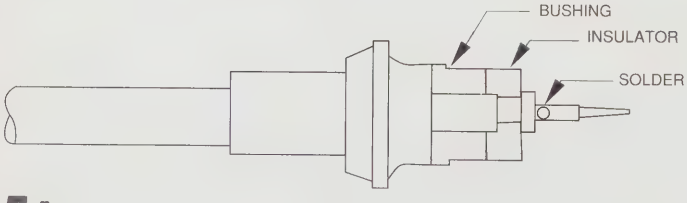
3. Slide adapter over cable until adapter bottoms on outer conductor. Solder adapter to outer conductor using minimum heat.



4. Trim dielectric to dimension "B" and center conductor to dimension "C".



5. Solder contact to center conductor.

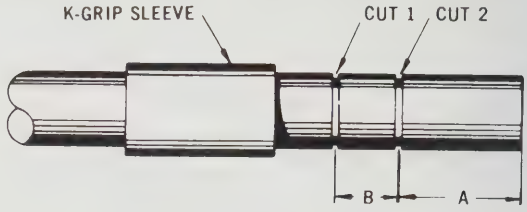


5A. For captive contacts, assemble contact capturing parts on cable before attaching contact.

6. Slide gasket, washer and clamp nut forward, thread assembly into connector and lock securely.

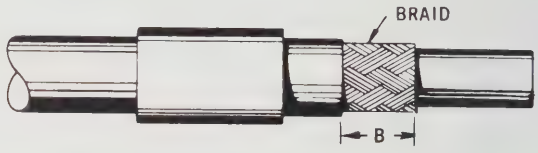
TRIM CODE CHART			
CODE	A	B	C
701	25/64	.107	7/64
705	3/8	.118	5/32

CP-1900



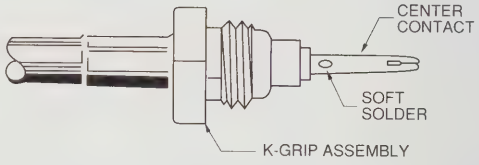
1. Cut cable end square, slide K-GRIP sleeve over jacket and make cuts 1 and 2 in jacket.

2. Remove jackets to dimension "A," flare or bulge back braid and trim with scissors at edge of jacket.

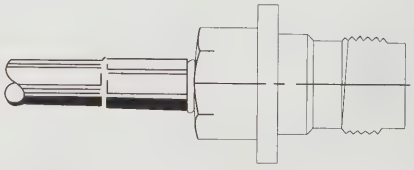


3. Remove jacket to dimension "B."

4. Using dielectric trim jig, trim dimension "C." Exposed center conductor length will be equal to dimension "D" of trim code.



5. Push K-GRIP Jr. over dielectric and under braid until dielectric bottoms in connector. Slide K-GRIP sleeve against shoulder on body and form hex. Soft solder contact as shown.



6. Thread assembly into connector, and lock securely.

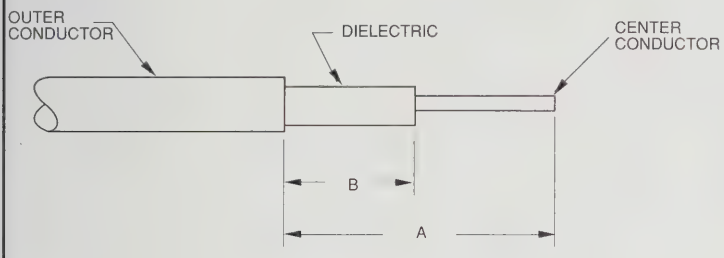
TRIM CODE CHART				
CODE	A	B	C	D
432	17/64	7/32	.390	3/32
439	7/32	7/32	.345	3/32
493	1/4	9/32	.390	.140
1901	.510	.220	.450	.280

CABLING PROCEDURE

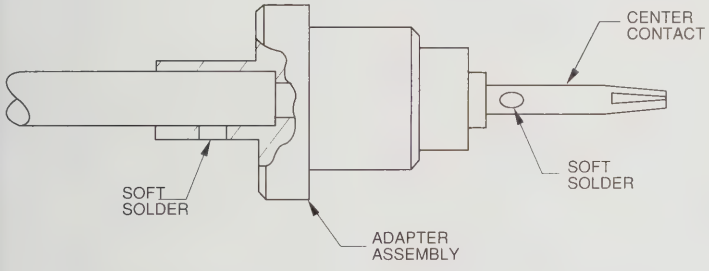
CP-2100

1. Cut cable end square and slide clamp nut onto outer conductor.

2. Remove outer conductor to dimension "A" and dielectric to dimension "B."



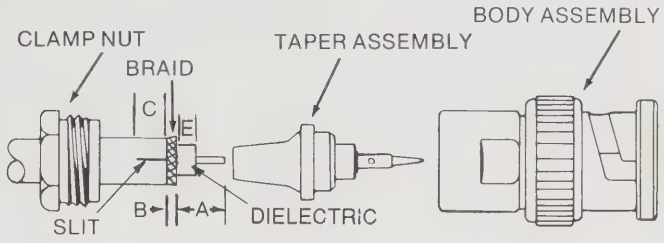
3. Insert cable into adapter assembly until bottomed. Soft solder outer conductor then center conductor as shown.



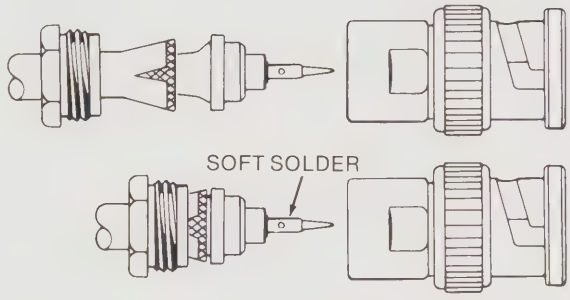
4. With connector body assembly mounted on bulkhead, insert cable assembly and lock securely with clamp nut.

TRIM CODE CHART		
CODE	A	B
2101	3/8	.125

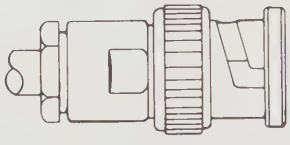
CP-2200



Cut cable end square. Place clamp nut over jacket. Remove jacket, braid and dielectric to dimension "A" with a straight perpendicular cut. Strip back jacket to "B" dimension and flare braid to facilitate entry of taper assembly. Slit jacket and moisture wrap to "C" dimension, two places, 180° apart, when required. If foil wrap is present on dielectric, it must be removed flush with jacket.



Continue to slide taper assembly until braid butts against shoulder. Solder contact to center conductor. Slide clamp nut forward over flared portion of cable as indicated.



Thread connector onto taper assembly and tighten securely. Do not turn taper assembly to tighten.

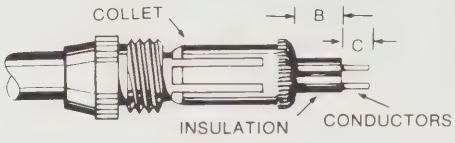
TRIM CODE CHART				
CODE	A	B	C	E
2201	1/4	1/32	0	0
2202	.325/.350	1/32	0	0
2203	1/4	1/32	9/32	0
2204	3/16	1/16	5/32	0
2205	1/4	3/32	0	3/32
2206	1/4	3/32	0	3/32
2207	1/4	5/32	0	0
2208	1/4	0	9/32	3/32
2209	5/32	1/32	0	0

CP-2500 / CP-2600

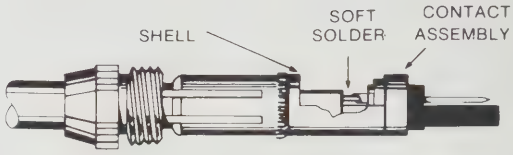
CP-2500

TRIM CODE CHART			
CODE	A	B	C
2501	1/2	5/32	3/32

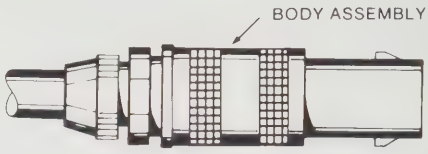
1. Cut cable end square. Slide clamp nut on cable and remove jacket to A dimension.



2. Comb out braid wires and taper forward. Slide collet over braid against jacket shoulder. Fold braid back over end of collet and trim as shown. Remove insulation to dimension B. Trim conductors to C dimension.



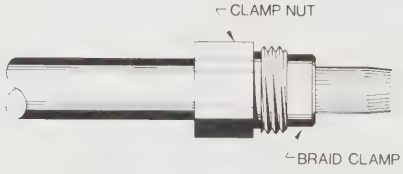
3. Push leads through back hole in shell and while holding shell against braid, solder leads to contacts in contact assembly. (through window in shell)



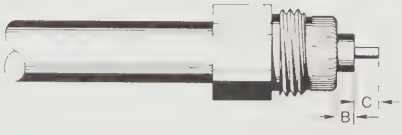
4. Position key on shell in key way on contact assembly. Insert into body assembly and lock in place with clamp nut.

CP-2600

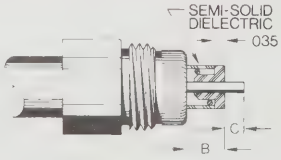
1. Cut cable end square, remove jacket to "A" dimension.

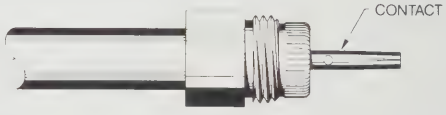


2. Slide on clamp nut and braid clamp. Clamp nut will butt up against cable jacket. Comb out braid, and taper forward.



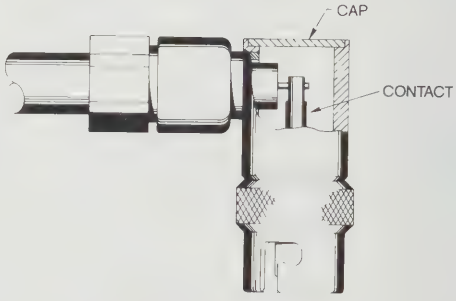
3. Fold braid back over braid clamp, and trim as shown. Remove dielectric to "B" dimension. Cut center conductor to "C" dimension. When a semi-solid dielectric is used consult Fig. 3.1 for positioning of insulator bushing.





4. Solder contact to center conductor. For access type angle connectors omit this step and proceed to step 5.

5. Thread assembly into connector, and lock securely.

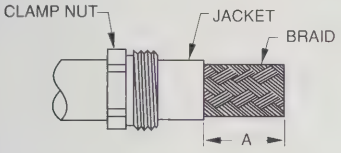


6. For access type angle connector, solder center conductor in contact groove. Close access opening.

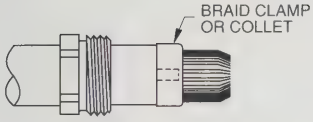
TRIM CODE CHART			
CODE	A	B	C
2601	17/32	.155	3/32
2602	7/16	.045	3/32
2603	7/16	.057	5/64
2604	.536	11/64	7/64

CABLING PROCEDURE

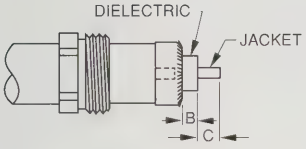
CP-2800



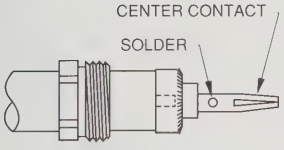
1. Cut cable end square. Slide clamp nut over jacket and remove jacket to dimension "A."



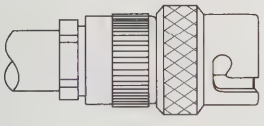
2. Comb out braid and taper forward. Place braid clamp or collet over braid against jacket cut.



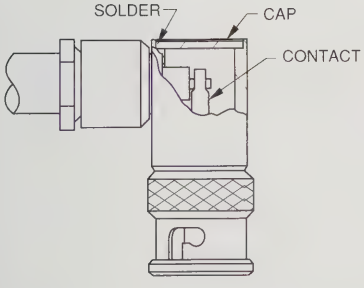
3. Fold braid back over braid clamp (collet) and trim as shown. Remove dielectric to dimension "B". Cut center conductor to dimension "C".



4. Butt center contact against dielectric and solder to center conductor. For access type angle connectors, omit this step and proceed to step 5.



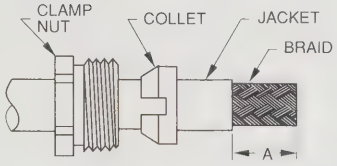
5. Assemble insulator, thread assembly into connector, and lock securely.



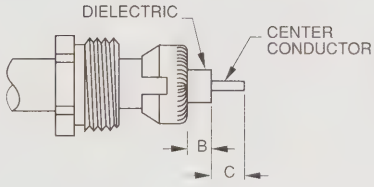
6. For access type angle connectors, solder center conductor in contact groove. Place cap in access opening and solder all around.

TRIM CODE CHART			
CODE	A	B	C
2801	9/32	.055	5/64

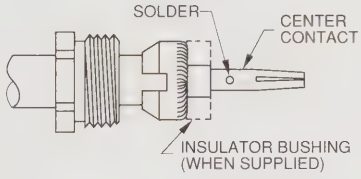
CP-3000



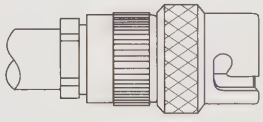
1. Cut cable end square. Slide clamp nut over jacket, remove jacket to dimension "A."



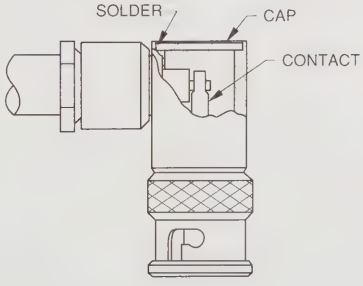
2. Slide collet forward to edge of jacket, comb out braid, fold back over collet and trim as shown.



3. Solder center contact to center conductor. For access type angle connectors omit this step and proceed to step 4.



4. Assemble insulator, thread assembly into connector, and lock securely.



5. For access type angle connectors, solder center conductor in contact groove. Place cap in access opening and solder all around.

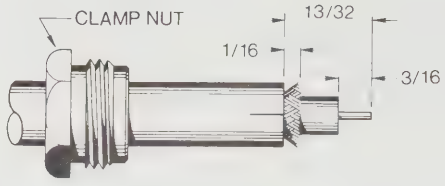
TRIM CODE CHART			
CODE	A	B	C
3001	11/64	.062	5/64

CABLING PROCEDURE

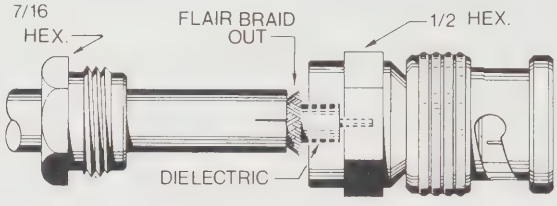
KINGS

CP-3200 / CP-3300 / CP-3800

CP-3200



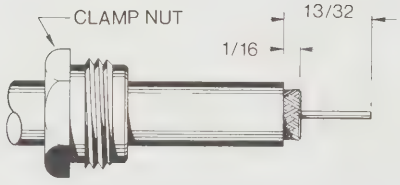
1. Cut cable end square and slide clamp nut onto cable. Strip jacket, braid and dielectric as shown. Slit jacket ¼" long in two places, approximately 180° apart.



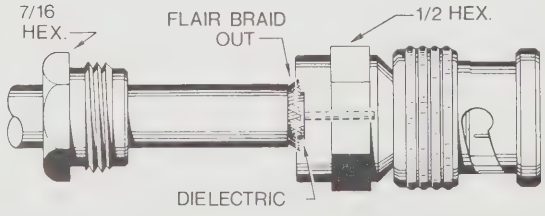
2. Flair braid out as shown, to facilitate cable entry into clamp in connector body.

3. Push prepared cable into connector until bottomed. Wrench tighten clamp nut into connector body.

CP-3300



1. Cut cable end square and slide clamp nut onto cable. Strip jacket, braid and dielectric as shown.

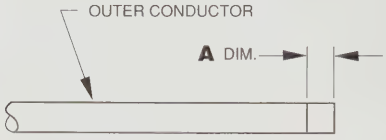


2. Flair braid out as shown, to facilitate cable entry into clamp in connector body.

3. Push prepared cable into connector until bottomed. Wrench tighten clamp nut into connector body.

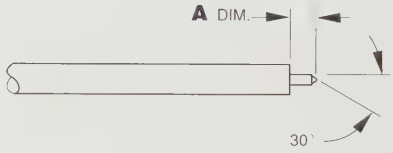
CP-3800

1. Trim cable using indicated trim tool.



A. Cut cable end square and score outer conductor all around to dimension indicated.

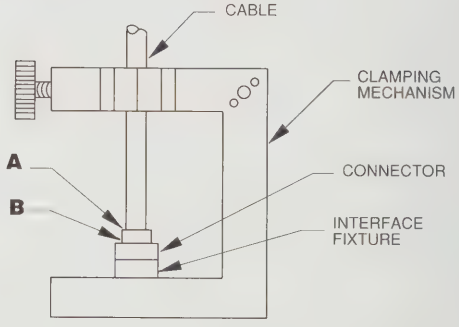
B. Remove jacket to scored mark with pliers. Then remove dielectric to front face of outer conductor making sure surface is square and free of burrs. Do not nick center conductor.



C. File end of center conductor as shown, to approximately 30°.

2. Insert trimmed end of cable into back end of connector, until cable bottoms.

3. Put an interface fixture on the mating end to prevent movement of the interface while soldering.



4. Place cable, connector and interface fixture in a non-destructive clamping mechanism.

5. Set fixture in vertical position shown.

6. Apply a small amount of liquid rosin flux to cable/connector joint (point **A**)

7. Apply heat at point **B** using resistance type heat tweezers or other similar devicve that will not leave burn marks or solder residue on the connector body.

8. Apply solder at point **A**, forming a smooth continuous joint free of voids.

9. Allow to cool.

10. Clean off excess flux using alcohol or a freon based flux cleaner.

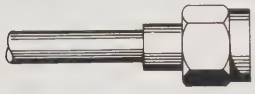
TRIM CODE CHART		
CODE	**A DIM.**	**TRIM TOOL**
3800-1	.090/.080	KTO-2A
3800-2	.075/.065	KTO-3A

CP-3500 and 3-308

1. Trim cable to dimension shown in chart. Use recommended ROTO-STRIP Trim Tool.

CABLING PROCEDURE	S/R CABLE	TOOL	A
3-308	.086	KTO-3A	.072 REF.
CP-3500	.141	KTO-2A	.087 REF.

2. Point center conductor as shown. Use recommended ROTO-STRIP Trim Tool.



3. Insert cable into connector, making sure that the face of the dielectric is fully seated

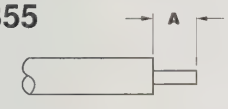
4. Crimp rear body as shown, using recommended crimp tool shown in chart below.

CABLING PROCEDURE	S/R CABLE	TOOL	A
3-308	.086	KTH-1000	KTH-2025
		KTH-6000	KTH-6025
CP-3500	.141	KTH-1000	KTH-2025
		KTH-6000	KTH-6025

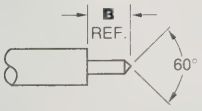
"ROTO-STRIP"® TRIM TOOLS

KINGS TOOL NUMBER KTO-3A for .086 semi-rigid cable
KINGS TOOL NUMBER KTO-2A for .141 semi-rigid cable

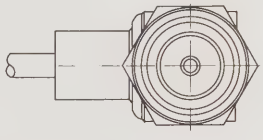
3-355



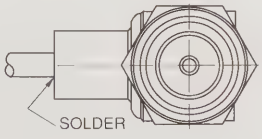
1. Trim cable to dimension shown. Recommended tooling: KTO-3A (ROTO-STRIP) for .085 S.R. Cable or KTO-2A (ROTO-STRIP) for .141 S.R. Cable.



2. Point cable as shown. Recommended tooling: KTO-3A (ROTO-STRIP) .085 S.R. or KTO-2A (ROTO-STRIP .141 S.R.



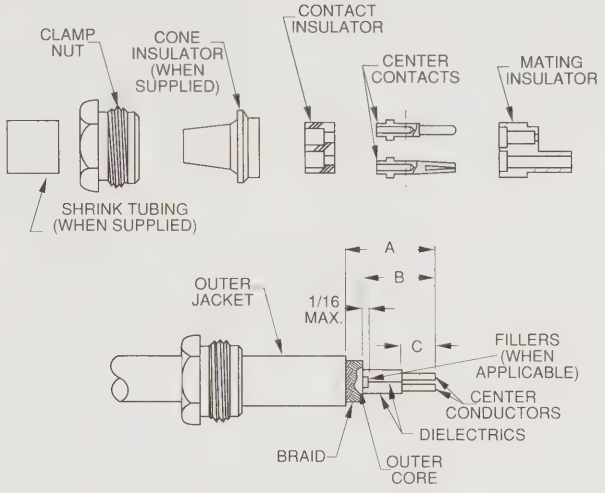
3. Insert cable into connector making sure cable seats against internal shoulder of body.



4. Solder cable onto body as shown.

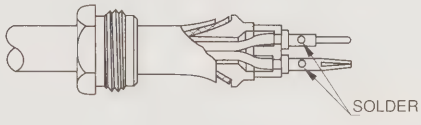
S/R CABLE	A	B
.086	.065 .075	.070
.141	.080 .090	.085

CP-3801



1. Cut cable end square, slide clamp nut and shrink tubing (when supplied) over jacket. Trim jacket, braid and outer core to dimensions shown.

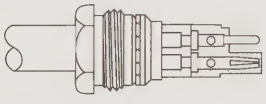
2. Trim dielectrics to dimension shown. Flare braid outward to facilitate entry of cone and to avoid forcing braid back under jacket.



3. Insert cone insulator into front cavity of cone. Push cone assembly over center conductors and under braid until braid butts against shoulder of cone. (Jacket may be warmed to ease entry of cone.)

4. Insert center conductors thru contact insulator. Place center contacts onto center conductors and into contact insulator until contact shoulders bottom against insulator face. Hold in place and solder.

4A. Bring shrink tubing (when supplied) forward against braid, shrink in place and trim braid at outer edge of cone.

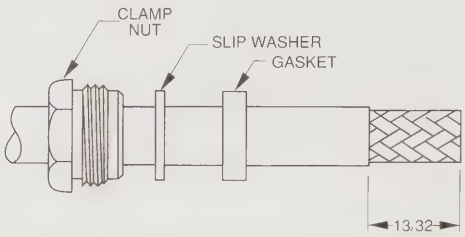


5. Assemble mating insulator as shown.

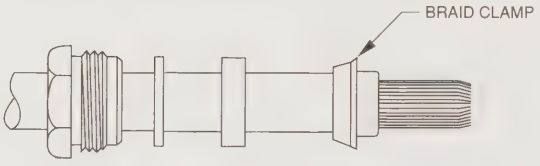
6. Push body assembly over entire cable assembly and thread onto clamp nut. Tighten by holding clamp nut stationary and rotating body clockwise with a wrench till body assembly seats against clamp nut. Do not turn clamp nut.

TRIM CODE CHART			
CODE	A	B	C
3801-1	.625	.562	.187
3801-2	.450	.400	.187
3801-3	.625	.156 (Braid is even with dielectric	.156

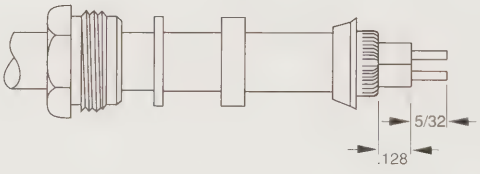
3-41



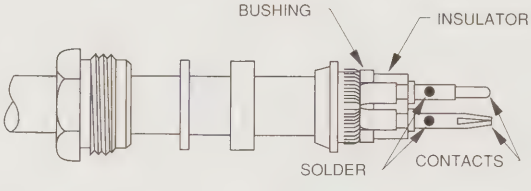
1. Cut cable end square, place clamp nut, slip washer and gasket over jacket. Remove jacket to 13/32 dimension.



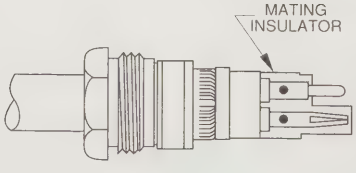
2. Comb out braid and taper forward. Place braid clamp over braid against jacket cut.



3. Fold braid back over braid clamp and trim as shown above. Remove dielectrics to .128 dimension. Cut center conductors to 5/32 dimension.

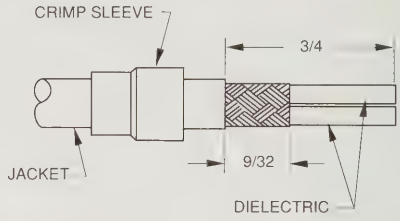


4. Assemble bushing, insulator and contacts as shown and solder contacts.

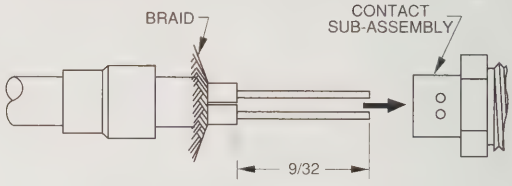


5. Assemble mating insulator and slide gasket, washer and clamp nut up to braid clamp. Thread cable assembly into connector body and lock securely. Vee gasket must be split by braid clamp.

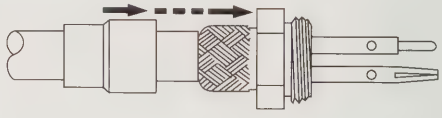
3-75



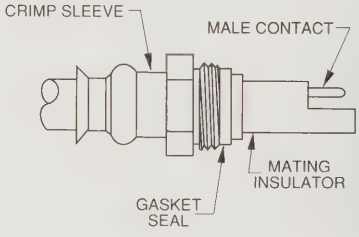
1. Slide crimp sleeve on cable, small end first. Trim jacket to 3/4 dimension and braid to 9/32 dimension.



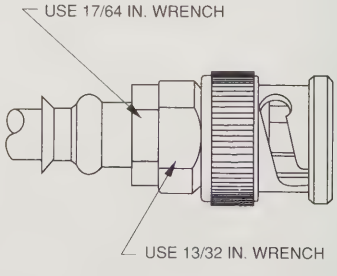
2. Fold back braid and remove dielectric to 19/32 dimension.



3. Insert stripped conductors into contact sub-assembly until cable dielectric is bottomed in insulator. Fold braid back in place over crimp body. Slide crimp sleeve forward over both braid and crimp body, against shoulder. Crimp both contacts and crimp sleeve using Amp Tool No. 69667.

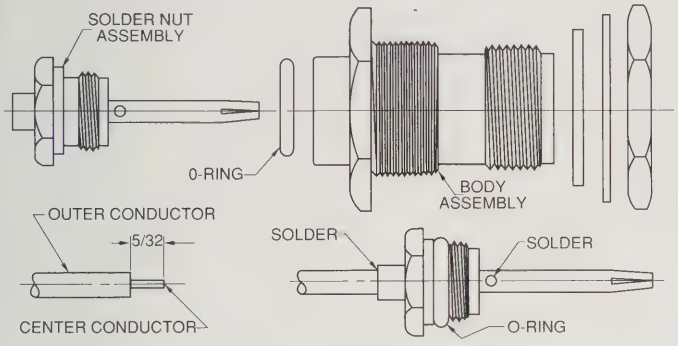


4. Assemble gasket on contact and insert contacts into mating insulator so that the male contact shows in cut out side.



5. Thread body onto crimped assembly. A tightening torque of 20 in. lbs. is recommended.

3-77



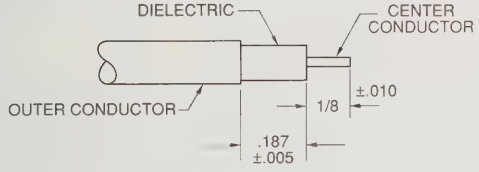
1. Remove outer conductor and dielectric to 5/32 dimension. Then break sharp corner on center conductor with file.

2. Care must be taken to remove any metal chips from dielectric face.

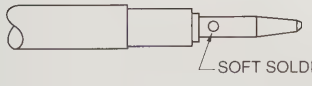
3. Insert cable into solder nut until bottomed. Hold in place and soft solder outer conductor then center conductor, as shown.

4. Assemble O-Ring into groove on solder nut. Hold nut in a fixed position, thread body assembly onto nut and lock securely.

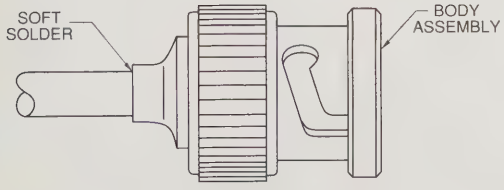
3-81 & 3-84



1. Remove outer conductor and dielectric to dimensions shown. (Care must be taken to remove all metal particles from dielectric surfaces.)

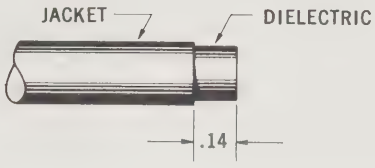


2. Assemble center contact in position against dielectric face & soft solder.

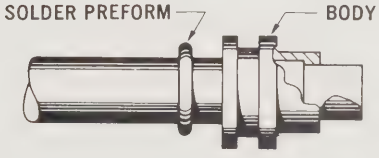


3. Place solder preform on cable, insert cable into body assembly until bottomed, hold in place and solder. (Apply a small amount of non-acid flux and heat at point directly behind body assembly on outer conductor.

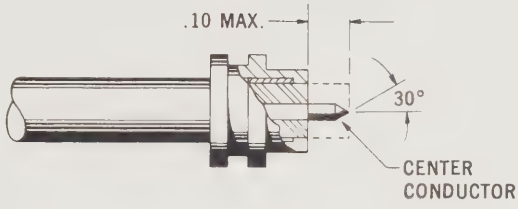
3-82



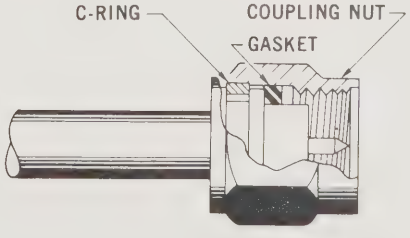
1. Cut cable end square. Using jacket trim jig, score cable all around and remove jacket to .14 with pliers. (This can also be accomplished by rocking trim jig until the jacket separates at score mark.)



2. Place solder preform on cable jacket. Slide connector body over dielectric and against jacket shoulder. While holding body in place, slide preform down cable and against body. Apply a small amount of non-acid flux, and solder by applying heat to cable jacket approximately 1/4" behind preform.



3. Cut dielectric flush with face of body and remove. (Do not nick center conductor.) The exposed center conductor length will then be .10 max. File end of center conductor to approximately 30° as shown.



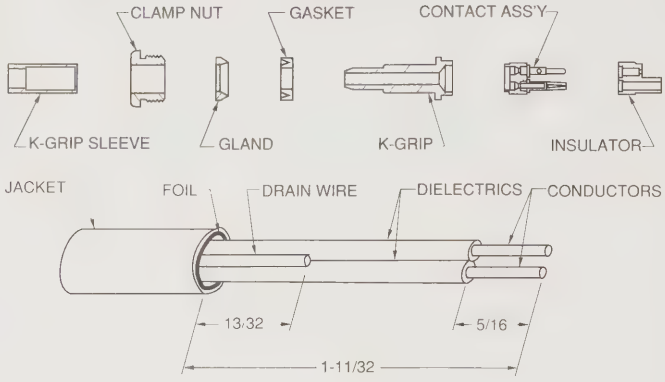
4. Place gasket on body. Compress C-ring with compressing tool (KTC-1), and snap coupling nut in place.

CABLING PROCEDURE

KINGS

3-97 / 3-210/ 3-257 / 3-344

3-97



1. Assemble clamp nut, gland, gasket & K-Grip sleeve on cable (in direction shown.)

2. Trim cable as indicated.

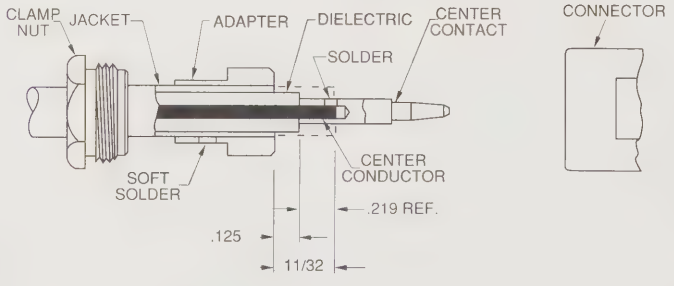
3. Slide K-Grip over dielectric & under drain wire until bottomed. Turn drain wire approx. 1/2 turn on K-grip knurl, then push K-Grip sleeve over drain wire to shoulder on K-Grip & crimp in place.

4. Flare out conductors slightly to facilitate entry into insulator & contact ass'y. Conductors should be visible through cross holes.

5. Hold in position & crimp contacts. (May be soft soldered.)

6. Assemble mating insulator with male contact in cut away section. Push all back end parts forward on K-Grip, thread into body ass'y & lock securely with clamp nut.

3-210



1. Cut cable end square. Remove jacket to 11/32 dim. Do not cut into dielectric.

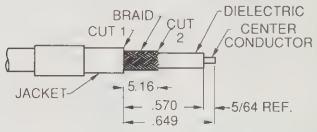
2. Slide clamp nut over cable. Position adapter as shown, with face flush with edge of jacket and soft solder.

3. Trim dielectric to .125 dim. exposed center conductor will be .219 Ref.

4. Solder center contact to center conductor.

5. Thread assembly into connector and lock securely.

3-257

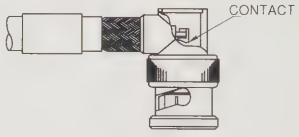


1. Cut cable end square. Slide K-Grip sleeve over jacket & make cuts 1 & 2 through jacket only.

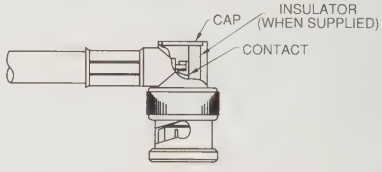
2. Remove end of jacket up to 2, flare or bulge back braid & trim with scissors at edge of jacket.

3. Remove jacket between cuts 1 & 2 exposing 5/16 length of braid.

4. Trim dielectric to .570 dim., exposed center conductor will be 5/64 Ref.

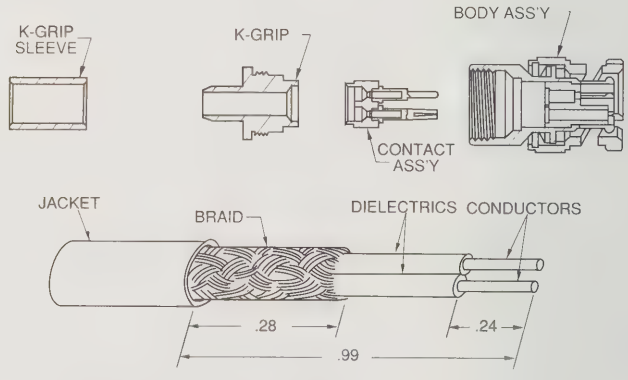


5. Push K-Grip Jr. over dielectric and under braid until cable is positioned in connector as shown.



6. Slide K-Grip sleeve against shoulder on body and form hex. Solder center conductor in contact groove, insert insulator (when supplied) and close access opening by pressing cap in place.

3-344



1. Cut cable end square, and slide K-Grip sleeve over jacket.

2. Trim cable as indicated.

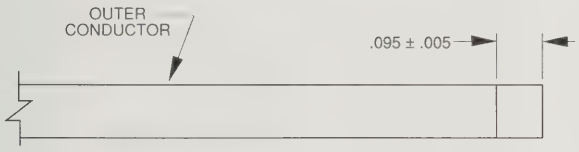
3. Slide K-Grip over dielectric & under braid until bottomed, and crimp in place.

4. Flare out conductors slightly to facilitate entry into contact ass'y. Conductors should be visible through cross holes in contacts.

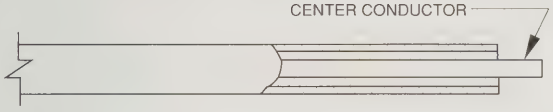
5. Hold in position & crimp contacts. (May be soft soldered.)

6. Assemble mating insulator with male contact in cut away section. Thread K-Grip into body ass'y & lock securely.

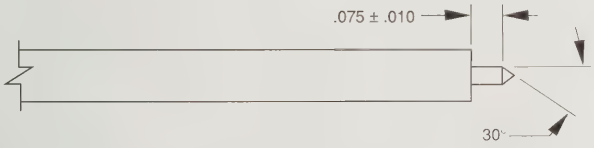
3-302



1. Cut cable end square. Score outer conductor all around to dim. shown.

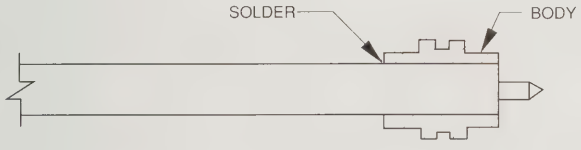


2. Remove jacket to scored mark. Then remove dielectric to front face of outer conductor making sure surface is square and free of burrs. Do not nick center conductor.



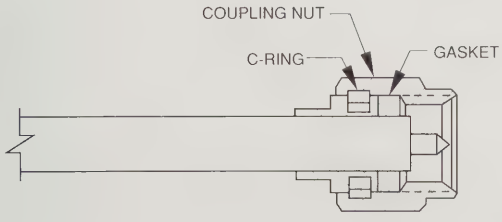
3. Chamfer center conductor to 30° as shown.

4. Steps 1 thru 3 may be accomplished with ease and accuracy using Kings KTO-2A stripping tool for RG-402/U (.141) cable.



5. Position body on cable so that front faces of body and trimmed cable are flush. Holding body in place, solder outer conductor to body by applying heat to outer conductor near the back of the body.

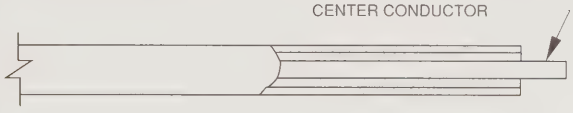
6. Remove any excess dielectric that may extrude from cable due to heat so that dielectric is flush again with outer conductor of cable and connector body.



7. Assemble gasket on body and C-Ring into groove. Compress C-Ring with compression tool (Kings KTC-1) and snap coupling nut in place.

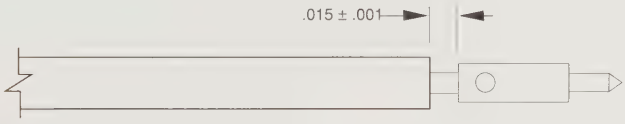
3-303

1. Cut cable end square. Score outer conductor all around to dim. shown.

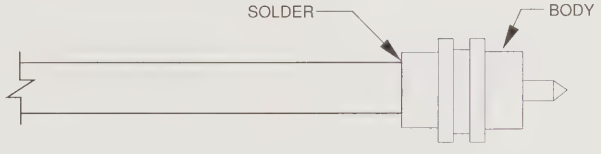


2. Remove jacket to scored mark. Then remove dielectric to front face of outer conductor making sure surface is square and free of burrs. Do not nick center conductor.

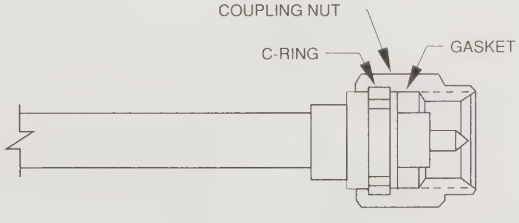
3. Steps 1 thru 3 may be accomplished with ease and accuracy using Kings KTO-2A stripping tool for RG-402/U (.141) cable or KTO-3A for RG-405/U (.085) cable.



4. Solder contact to center conductor with .015 ± .001 gap as shown.



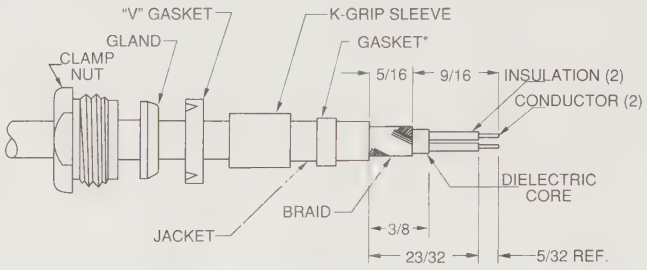
5. Position body on cable so that cable stops at inside shoulder. Holding body in place, solder outer conductor to body by applying heat to outer conductor near the back of the body.



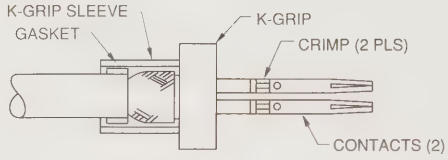
6. Assemble gasket on body and C-Ring into groove. Compress C-Ring with compressing tool (Kings KTC-1) and snap coupling nut in place.

3-263 / 3-350

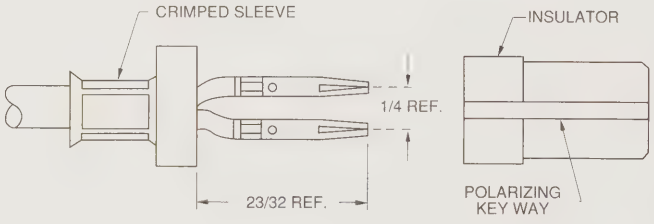
3-263



1. Cut cable end square. Assemble clamp nut, gland, "V"-gasket, K-Grip sleeve and gasket on cable. Trim cable to dimensions shown.



2. Assemble contact against insulation shoulder and crimp in place (2). Insert contacts in K-Grip I.D. and push K-Grip over dielectric core and under braid until bottomed. Slide gasket to end of jackert and K-Grip sleeve forward over gasket and braid. Bottom on K-Grip shoulder, as shown and crimp. (Use KTH-2010 die for crimping contacts & K-Grip sleeve.

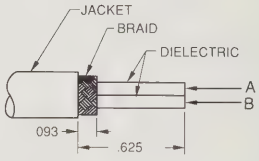


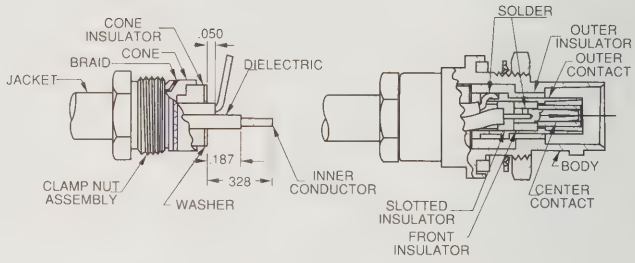
3. Flare out conductor to facilitate assembly and insert in insulator with polarizing keyway properly oriented for the circuit.

4. Move clamp nut, gland and "V"-gasket forward over crimped sleeve. Assemble into connector body aligning keyway with key in body and thread clamp nut into body and lock securely. "V"-gasket must be split by gland.

*Gasket not supplied with KU-19-11-MO6

3-350





1. Cut cable end square and slide clamp nut assembly back over jacket.

2. Trim jacket and braid as shown.

3. Flare braid outward over jacket edge to facilitate entry of cone and keep braid strands in place.

4. Insert cone insulator into front cavity of cone.

5. Move cable dielectrics in a circular motion about cable axis loosening braid to permit entry of cone.

6. Push cone assembly over dielectrics (and fillers if present) under braid and jacket until braid ends are against cone shoulder. Heat jacket carefully as required to ease full entry of cone.

7. Remove fillers, if present, flush with face of cone insulator.

8. Assemble plastic washer over dielectrics against cone insulator.

9. Strip dielectric 'A' off inner conductor .050 from washer face, dielectric 'B' .187 from washer face.

10. Trim inner conductor 'B' to .328 from washer face.

11. Bend conductor 'A' at right angles to cable and assemble slotted insulator over both dielectrics and against washer.

12. Assemble center contact on conductor 'B' against slotted insulator and solder in place.

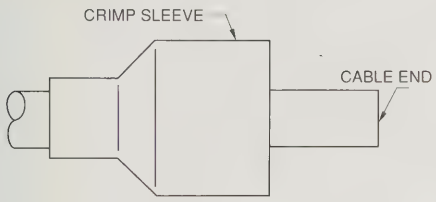
13. Assemble front insulator over contact and outer contact over insulators against washer with conductor 'A' projecting radially through slot.

14. Wrap conductor 'A' around groove in outer contact and solder in place.

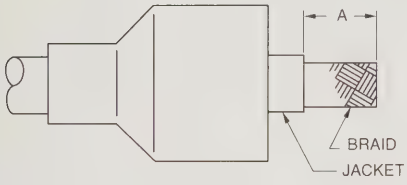
15. Assemble outer insulator over outer contact against washer.

16. Assemble body over internal parts threading carefully onto clamp nut and tighten securely. Avoid twisting cable. Recommended torque, 40 to 50 inch-pounds.

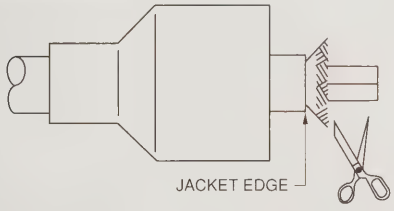
CABLING PROCEDURE



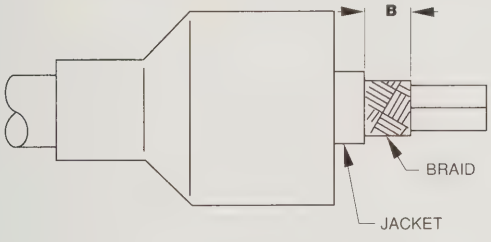
1. Cut cable end square and slide crimp sleeve over cable as shown.



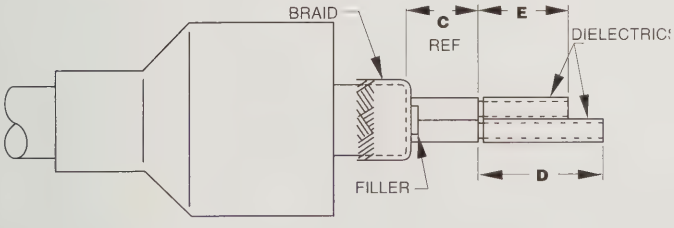
2. Remove jacket to "**A**" dimension.



3. Flare or bulge back braid and trim with scissors at edge of jacket.

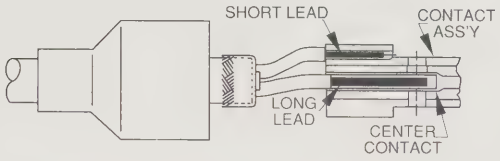


4. Remove jacket to "**B**" dimension, taking care not to nick braid.

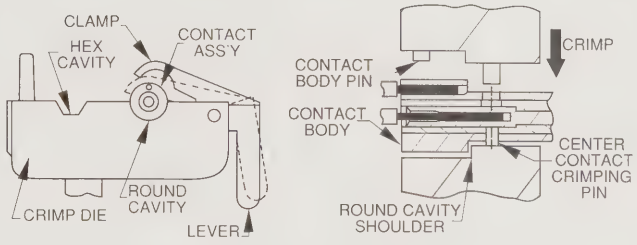


5. Fold back braid and trim both fillers flush with fold. Then cut through *both* dielectrics at "**D**" dimension (Do not nick conductors and do not remove dielectrics). Next, trim *one* of the leads to the "**E**" dimension, the remaining long lead will be inserted into the center contact in the next step.

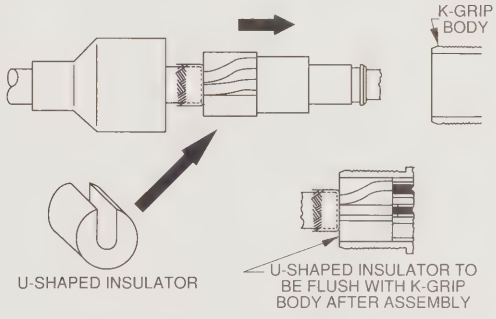
DASH NO.	A	B	C	D	E
-1	.200	.391	.279	.312	.172
-2	—	—	—	.312	.172



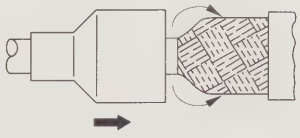
6. Remove the dielectrics and insert center conductors (long lead in center, short lead in contact body) into contact ass'y. A gentle rocking motion of the cable will facilitate entry of the leads.



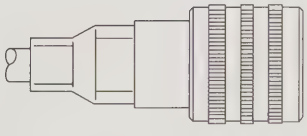
7. Place appropriate crimp die into crimping tool. Push down on lever to open clamp. Insert contact assembly, with cable conductors in place, against the round die cavity shoulder. Line up center contact crimping pins with clearance holes (make sure that the conductor inserted in the contact body is in line with the contact body pin.) Release the clamp lever, locking contact assembly in place and crimp carefully.



8. Slide U-shaped insulator into gap between contact assembly and braid. Using insulator snap in contact assembly into K-Grip body.

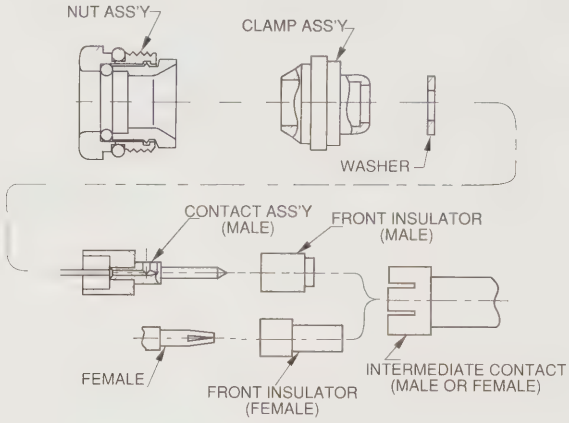


9. Fold braid back over K-Grip body, slide crimp sleeve over braid and body. Crimp with hex cavity of die.

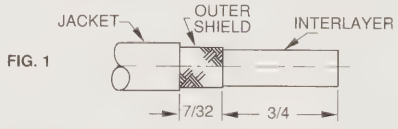


3-391 / 3-392

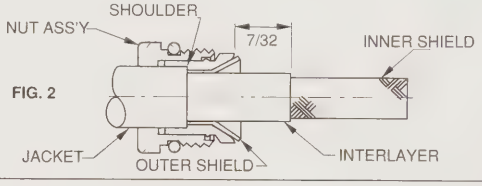
3-391



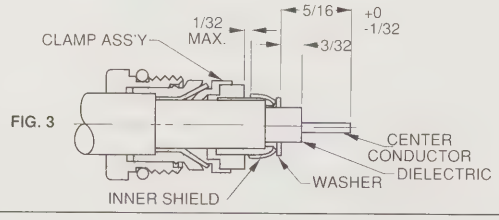
1. Cut cable end square. Trim jacket, and outer shield to dimensions shown. Secure shield ends with "scotch" tape.



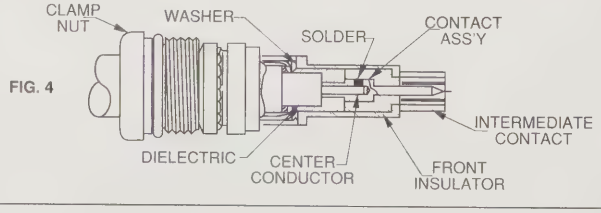
2. Slide nut ass'y over outer shield, butting internal shoulder against jacket edge. Remove "scotch" tape and flare outer shield against nut ass'y internal taper (Fig. 2). Trim interlayer to 7/32" dim. and secure inner shield ends with "scotch" tape.



3. Slide clamp ass'y over interlayer and inner shield pressing it back firmly against outer shield and remove tape (Fig. 3). Comb out inner shield, fold back as shown (Fig. 3) and trim to 1/32" dim. Assemble washer over dielectric against inner shield. Trim dielectric and center conductor to 5/16" and 3/32" dimensions.

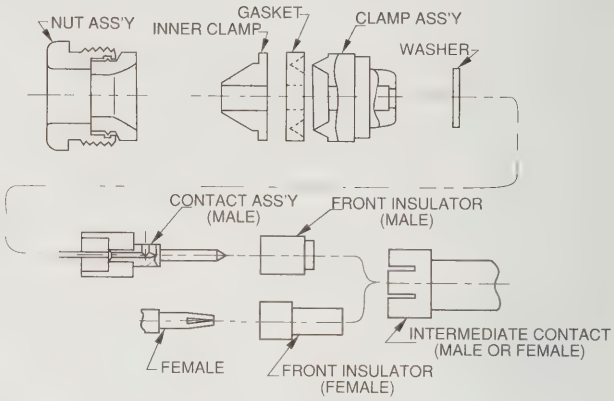


4. Place contact ass'y over dielectric and center conductor. Butt against washer and solder contact to center conductor as shown (Fig. 4). Assemble front insulator and intermediate contact.

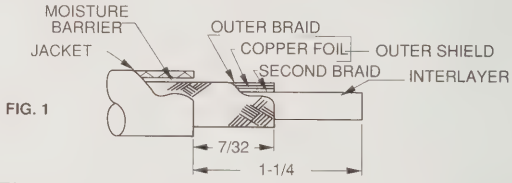


5. Insert parts into body ass'y and tighten clamp nut securely. Recommended torque 30-35 in./lbs.

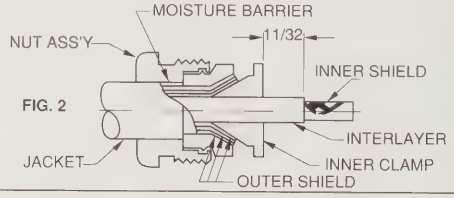
3-392



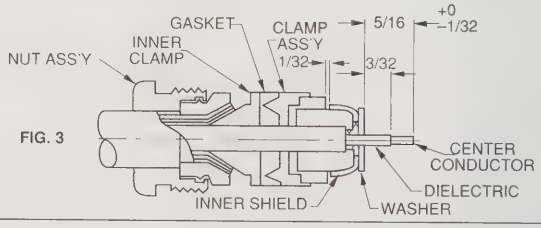
1. Cut cable end square. Trim jacket, moisture barrier and outer shield to dimensions shown (Fig. 1). Secure shield ends with "scotch" tape.



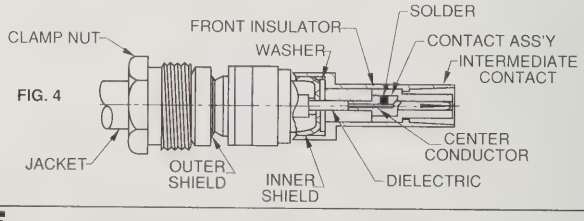
2. Slide nut ass'y over outer shield, butting internal shoulder against jacket edge. Remove "scotch" tape and flare outer shield against nut ass'y internal taper (Fig. 2).Slide inner clamp over interlayer, pressing it back firmly against outer shield and trim interlayer to 11/32 dimension. Secure inner shield ends with tape.



3. Slide gasket and clamp ass'y over interlayer and inner shield, against inner clamp and remove tape. Comb out inner shield, fold back as shown (Fig. 3) and trim to 1/32 dim. Assemble washer over dielectric against inner shield. Trim dielectric and center conductor to 3/32 and 5/16 dimensions.

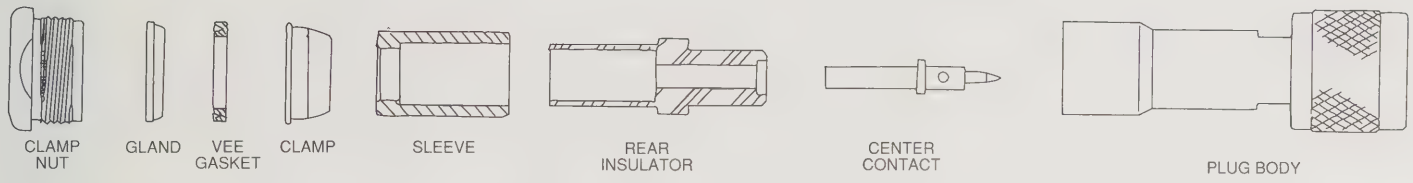


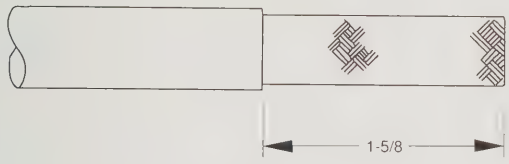
4. Place contact ass'y over dielectric and center conductor. Butt against washer and solder contact to center conductor as shown (Fig. 4). Assemble front insulator and intermediate contact.



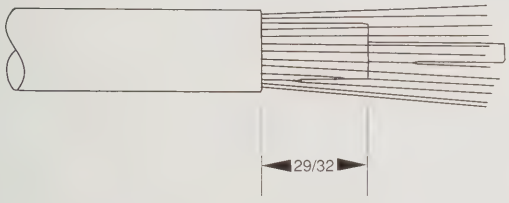
5. Insert parts into body ass'y and tighten clamp nut securely. Recommended torque 30-40 in./lbs.

CABLING PROCEDURE

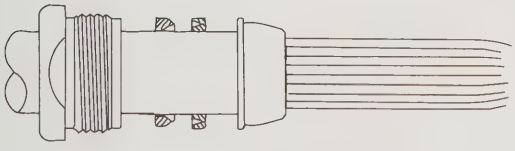




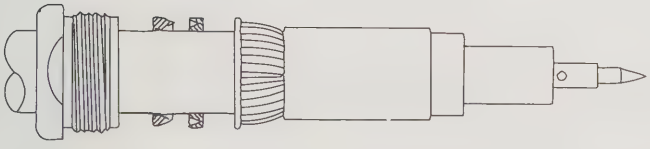
1. Cut cable end square. Trim Back jacket to 1-5/8 dimension.



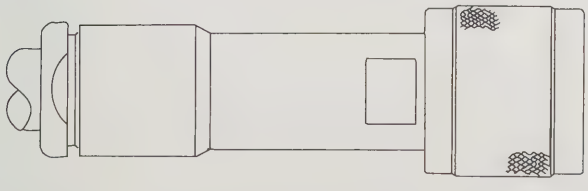
2. Comb out braid and trim dielectric to 29/32 dimension. Do not nick center conductor.



3. Taper braid wires forward and slide clamp nut, gland and vee gasket onto cable. Slide clamp over braid until internal shoulder butts against cable jacket.



4. Fold braid back over clamp and trim as shown. Tin center conductor using minimum amount of heat. Slide sleeve and rear insulator over dielectric until rear insulator butts against dielectric. Contact shoulder must be flush with face of insulator as shown. Soft solder contact to center conductor. Coat dielectric and insulator mating surfaces with DC-4 compound to ensure 5KV peak rating. Slide assembly carefully into body. Tighten clamp nut with wrench while holding body stationary. Vee gasket should be cut in half.



3-395 / 3-400

3-395

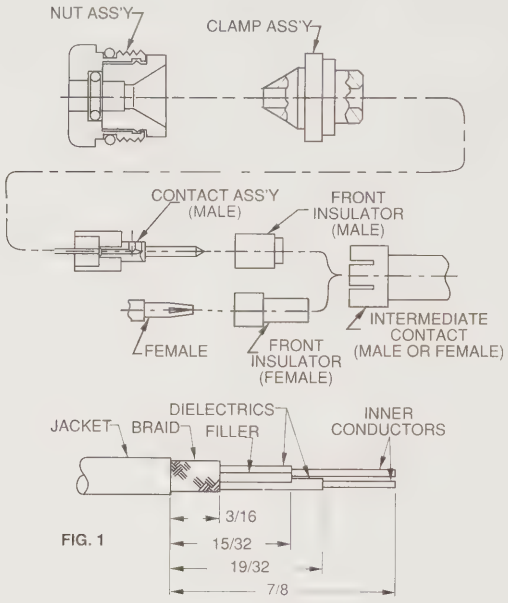


FIG. 1

1. Cut cable end square. Trim cable as shown in Fig. 1 and secure braid with scotch "magic" tape.

2. Insert cable into nut ass'y butting jacket edge against internal shoulder. Remove tape and flare braid against nut ass'y internal taper. Slide clamp ass'y over dielectrics and fillers pressing firmly against flared braid as shown in Fig. 2.

3. Trim inner conductor A to 3/16 and fold back over clamp ass'y (Fig. 2). Trim inner conductor B to 9/32 (Fig. 2).

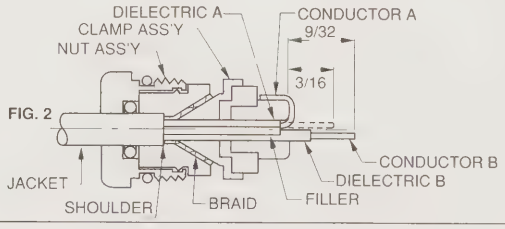


FIG. 2

4. Place contact ass'y over dielectric and inner conductor B and solder contact to inner conductor B as shown in Fig. 3.

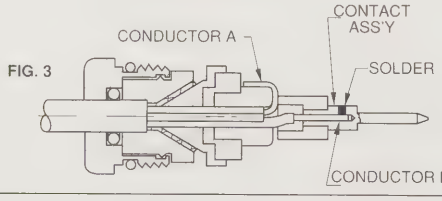


FIG. 3

5. Place front insulator on center contact and assemble intermediate contact pressing inner conductor A against clamp ass'y as in Fig. 4

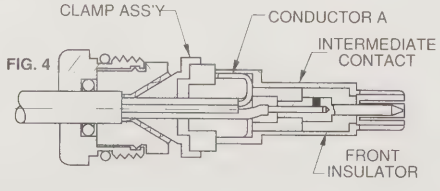
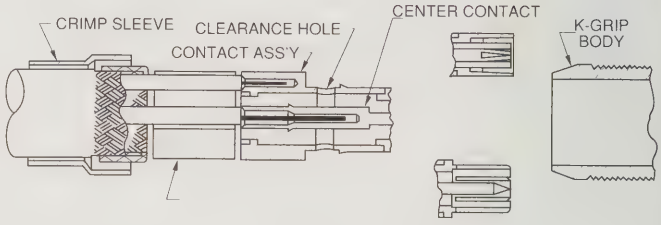


FIG. 4

6. Insert parts into body ass'y and tighten clamp nut securely. Recommended torque 30-35 inch-pounds.

3-400



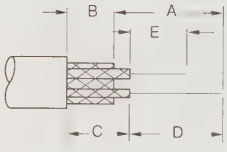


FIG. 1

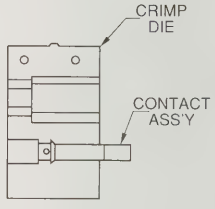


FIG. 2

1. Cut cable end square.

2. Slide crimp sleeve over cable.

3. Remove jacket to dimension "A", flare or bulge back braid and trim with scissors at edge of jacket. (See Fig. 1).

4. Remove jacket to dimension "B".

5. Fold back cable braid and trim both dielectrics and fillers to dimenion "C".

6. Trim one center conductor to "E" dimension as shown. The length of the remaining center conductor should be equal to the "D" dimension.

7. Insert leads into contact assembly as shown.

8. Insert contact assembly, with leads inserted, against the round die cavity shoulder. Line up center contact crimping pins with clearance holes. (See Fig. 2).

9. Crimp carefully, assuring that crimping pins remain in clearance holes.

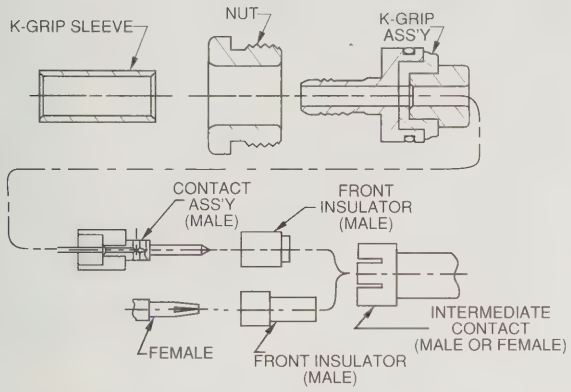
10. Snap in contact assembly into K-Grip body using "U" shaped insulator. Be sure insulator is bottomed in body.

11. Fold braid back over K-Grip body. (Braid may be combed to ease assembly of crimp sleeve).

12. Slide crimp sleeve over K-Grip body and crimp with hex die cavity.

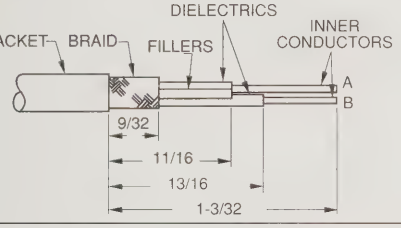
TRIM CODE CHART				
A	B	C	D	E
.350	.375	.410	.315	.172

3-425



1. Cut cable end square. Slide K-Grip sleeve and clamp nut over jacket. Trim cable as shown in Fig. 1.

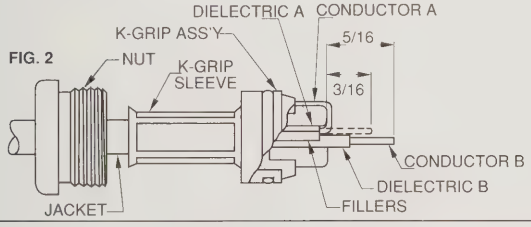
FIG. 1



2. Push K-Grip ass'y over dielectric and fillers, under braid and against jacket edge. Then slide K-Grip sleeve forward over braid and K-Grip ass'y and crimp in place as shown in Fig. 2.

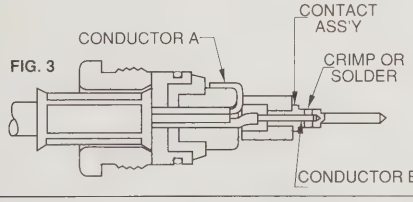
3. Trim inner conductor A to 3/16 and fold back over K-Grip ass'y. Trim conductor B to 5/16 (Fig. 2).

FIG. 2



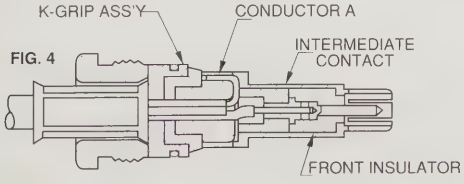
4. Place contact ass'y over dielectric B and conductor B and crimp or solder contact to inner conductor as shown in Fig. 3.

FIG. 3



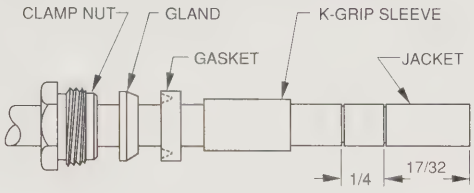
5. Place front insulator on center contact and assemble intermediate contact pressing conductor A against K-Grip ass'y as shown in Fig. 4.

FIG. 4

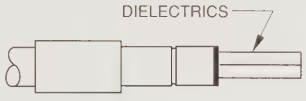


6. Insert parts into body assembly and tighten clamp nut securely. Recommended torque 30-35 inch-pounds.

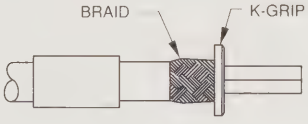
C-59-302-8



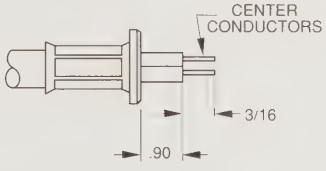
1. Cut cable end square. Slide clamp nut, gland, gasket and K-Grip sleeve over jacket. Make two cuts through jacket only at 17/32 and 1/4 dimensions. Do not nick braid.



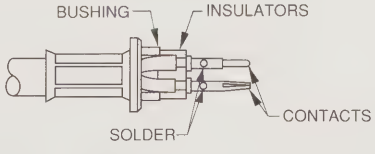
2. Remove jacket to 17/32 dimension. Flare back braid and trim with scissors at edge of jacket.



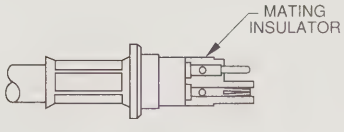
3. Remove 1/4 inch length of jacket and flare out braid slightly by rotating dielectrics. Push K-Grip over dielectrics and under braid.



4. Slide K-Grip sleeve forward over both braid and K-Grip as indicated and form hex. Trim dielectrics to .190 dim. and center conductors to 3/16 dim.

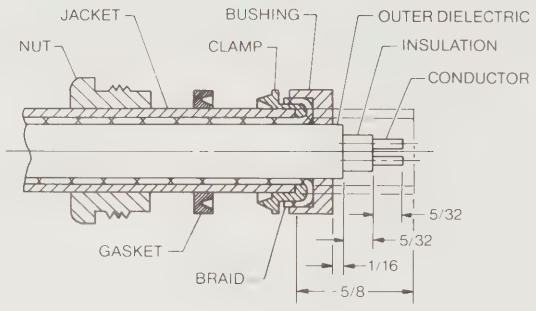


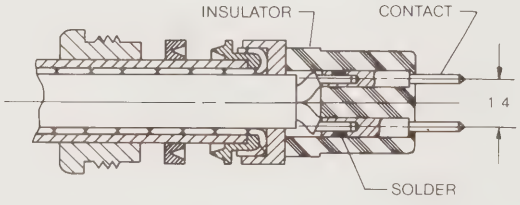
5. Assemble bushing, insulator and contacts as shown and solder contacts.



6. Assemble mating insulator and slide gasket, gland and clamp nut over K-Grip sleeve. Thread cable assembly into connector body and lock securely.

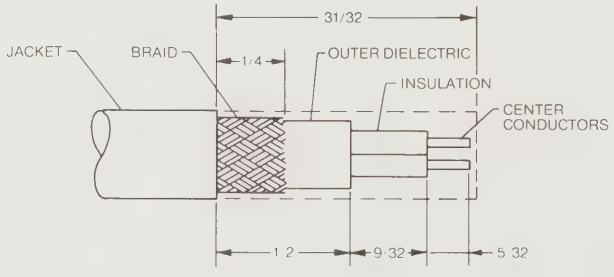
421-B-5

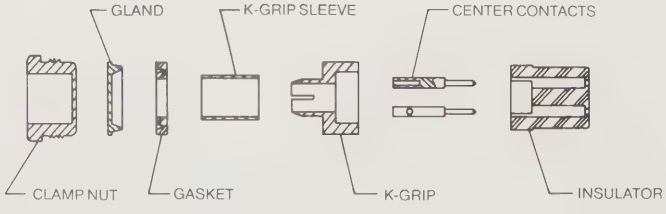




1. Cut cable end square. Slide nut and gasket over cable jacket.
2. Cut back jacket to dimension shown without nicking braid.
3. Push clamp over braid and butt against jacket. Comb out braid wires, fan back over clamp and trim as shown.
4. Push bushing over dielectric and butt against braid.
5. Cut outer dielectric and insulation to dimensions shown. Do not nick conductors.
6. Cut conductors to dimension shown and tin.
7. Butt contacts against insulation and solder to conductors using low melting point solder. Do not overheat insulation or dielectric. Clean excess solder, rosin, etc., off surface.
8. Form conductors to bring contacts onto 1/4 centers as shown. Apply light film of Dow Corning #4 ignition sealing compound to dielectric surfaces.
9. Assemble insulator over contacts and butt against bushing. Be sure that polarizing keyway of insulator is properly oriented for the circuit.
10. Insert assembly into connector body allowing insulator keyway with key in connector body.
11. Make sure gasket is properly seated with sharp edge of clamp entering groove in gasket. Turn nut into connector body until sufficient pressure is applied to split gasket and insure good contact between clamp and nut.

3-105





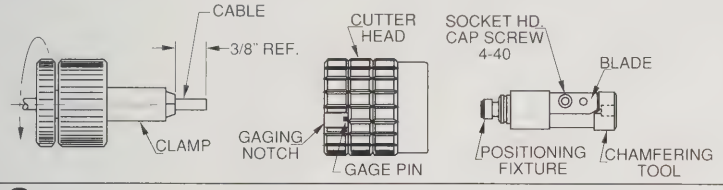
1. Cut cable end square. Slide clamp nut, gland, gasket and K-Grip sleeve over jacket.
2. Trim cable as shown.
3. Place center contacts on cable against insulation and crimp or solder in place.
4. Push K-Grip over outer dielectric and under braid until K-Grip stops at jacket. Slide K-Grip sleeve over braid against K-Grip shoulder. Hold in place and form hex using crimp tool and die.
5. Assemble insulator over contacts and butt against K-Grip. Be sure that polarizing keyway of insulator is properly oriented for the circuit. Insert assembly into connector body aligning insulator keyway with key in connector body and lock securely.

Kings Part No.	Applicable Cable	Crimp Die
KU-59-100-M06	BELDEN 8227 BELDEN 9207 IBM 7362211 (BERK-TEK) AWM 2498	KTH-2010

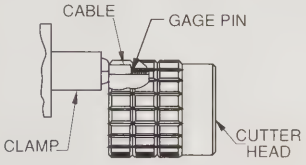
OPERATING INSTRUCTIONS FOR KTO-2A & KTO-3A

CABLE PREPARATION

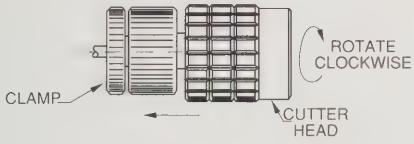
1. Insert cable into clamp so it projects approximately 3/8" from the small end. Apply minimum pressure while tightening clamp to obtain light axial drag on cable.



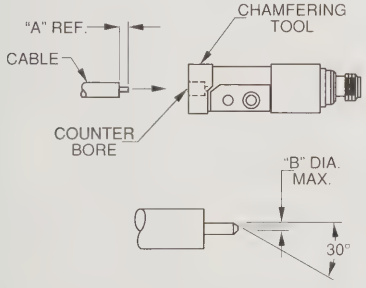
2. Insert cable end into gaging notch of cutter head. Butt center conductor against gage pin. Push clamp forward on cable until clamp end stops against face of cutter head with cable end against gage pin. Tighten clamp.



3. Slide clamp into cutter head until end of cable engages cutter head blade. Rotate cutter head clockwise about clamp applying a light axial force to start cut. Blade will follow a helical path through cable outer conductor and dielectric until small end of clamp stops against bottom of counterbore in cutter head. When cutter head rotates freely outer conductor chip will be loose. Withdraw cutter head and remove dielectric from center conductor.



4. Insert cable end into chamfering tool and rotate tool clockwise about cable with light pressure until cable bottoms in counterbore.



5. Remove chamfering tool and clamp from cable.

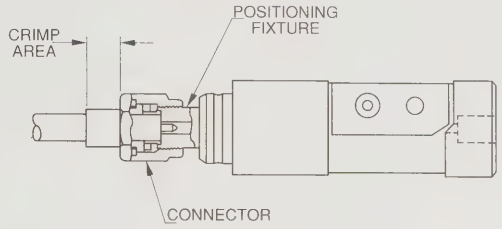
RG-402/U (KTO-2A)		RG-405/U (KTO-3A)	
"A" Dim.	"B" Dia.	"A" Dim.	"B" Dia.
.087	.015	.072	.005

USE OF POSITIONING FIXTURE

Positioning fixture is provided for assembling connectors which conform to MIL-C-39012/92.

1. Fully mate the connector onto positioning fixture.

2. Insert cable into back end of connector. Push cable in firmly until face of cable bottoms against face of positioning fixture.

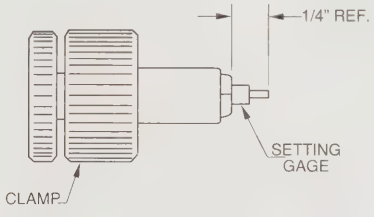


3. Crimp back end of connector with Kings K-Grip tool KTH-1000, using appropriate cavity of crimp die KTH-2145.

ALTERNATE CRIMP TOOL			
CABLE	TOOL	DIE SIZE	CAVITY
RG-402/U	KINGS: KTH-6000	KTH-6145	.178 HEX
RG-405/U			.128 HEX.

CUTTER HEAD BLADE ADJUSTMENT

1. Insert blade setting gage KTG-105 into clamp with tip projecting 1/4 inch and lock securely.

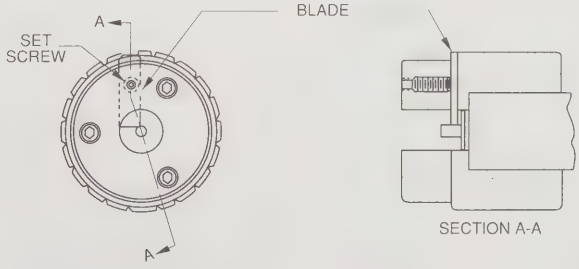


2. Loosen set screw (6-32 UNC-2A) holding blade in cutter head.

3. Slide blade away from cutter head center about 1/16 inch.

4. Insert clamp and blade setting gage into cutter head until clamp bottoms.

5. Slide blade into cutter head until tip of blade touches small diameter of gage and tighten set screw.



Note: Setting Gage is sized to allow for minor eccentricity of cable center conductor. If center conductor is scored by blade, blade should be readjusted slightly away from gage. A few trials will enable you to optimize the blade adjustment for clean removal of dielectric.

CABLE REFERENCE TABLE

KINGS

CABLE DESIGN.	ARMOR O.D. MAX.	JACKET O.D. MAX.	BRAID O.D. MAX.	DIELECTRIC O.D. MAX.	CENTER CONDUCTOR STRANDING	CENTER CONDUCTOR O.D. NOM.	NOMINAL IMPEDANCE OHMS	MAX. FREQ. GHz	MAX. POWER WATTS AT 400 MHz	M17/ REPLACE-MENT	NOTES
RG5B/U		.335	.260 D	.185	SOLID	.051	50			73-RG212	
RG6A/U		.336	.264 D	.189	SOLID	.029	75			2-RG6	
RG8A/U		.415	.340 S	.295	7/AWG21	.086	52			74-RG213	
RG9B/U		.430	.355 D	.285	7/AWG21	.086	50			75-RG214	
RG10A/U	.475	.415	.340 S	.295	7/AWG21	.086	52			74-RG215	
RG11A/U		.412	.340 S	.292	7/AWG26	.048	75			6-RG11	
RG12A/U	.475	.412	.340 S	.292	7/.0159	.048	75			6-RG12	
RG13A/U		.430	.355 D	.290	7/AWG26	.048	74			77-RG216	
RG14A/U		.558	.463 D	.383	SOLID	.102	52			78-RG217	
RG17/U		.885	.760 S	.695	SOLID	.188	52			79-RG218	
RG17A/U		.885	.760 S	.695	SOLID	.188	52			79-RG218	
RG18/U	.945	.885	.760 S	.695	SOLID	.188	52			79-RG219	
RG18A/U	.945	.885	.760 S	.695	SOLID	.188	52			79-RG219	
RG19/U		1.135	.760 S	.695	SOLID	.188	52			81-00001	
RG19A/U		1.135	.990 S	.925	SOLID	.250	52			81-00001	
RG20/U	1.195	1.135	.990 S	.925	SOLID	.250	52			81-00002	
RG20A/U	1.195	1.135	.990 S	.925	SOLID	.250	52			81-00002	
RG21/U		.339	.264 D	.192	SOLID	.051	53			162-00001	
RG21A/U		.339	.264 D	.192	SOLID	.051	53			162-00001	
RG22B/U		.430	.355 D	.291	7/.0152	.046	95	200MHz		15-RG22	TWIN
RG55A/U		.216	.171 D	.116	SOLID	.035	50			84-RG223	
RG55B/U		.206	.176 D	.121	SOLID	.032	53.5			84-RG223	
RG58/U		.199		.120	SOLID	.032	53.5			28-RG58	
RG58A/U		.199		.120	19/AWG33	.038	52			28-RG58	
RG58B/U		.199		.120	SOLID	.032	53.5			28-RG58	
RG58C/U		.199	.150 S	.120	19/AWG33	.038	50			28-RG58	
RG59/U		.242	.191 S	.150	SOLID		73			29-RG59	
RG59A/U		.242	.191 S	.150	SOLID	.023	73			29-RG59	
RG59B/U		.246	.191 S	.150	SOLID	.023	75			29-RG59	
RG62/U		.249	.191 S	.151	SOLID	.025	93			30-RG62	
RG62A/U		.249	.191 S	.151	SOLID	.025	93			30-RG62	
RG62B/U		.249	.191 S	.151	7/AWG32	.025	93			30-RG62	
RG63B/U		.415	.340 S	.295	SOLID	.025	125			31-RG63	
RG71B/U		.250	.208 D	.151	SOLID	.025	93			90-RG71	
RG82/U		.757		.675	SOLID	.125	50				
RG108A/U		.245	.177 S (NOM)	.082	7/AWG28		78			45-RG108	TWIN
RG114/U		.415	.340 S	.295	SOLID	.007	185			47-RG114	
RG114A/U		.415	.340 S	.295	SOLID	.007	185			47-RG114	
RG115/U		.385	.320 D	.255	7/.028		50			168-00001	
RG115A/U		.430	.325 D	.260	7/AWG21	.086	50			168-00001	
RG117/U		.745	.670 S	.625	SOLID	.188	50			72-RG211	
RG117A/U		.745	.670 S	.625	SOLID	.188	50			72-RG211	
RG118/U	.795	.745	.670 S	.625	SOLID	.188	50			161-00002	
RG118A/U	.795	.745	.670 S	.625	SOLID	.188	50			161-00002	
RG122/U		.165	.126 S	.099	27/AWG36	.030	50			54-RG122	
RG141/U		.195	.146	.121	SOLID	.036	50			111-RG303	
RG141A/U		.195	.146 S	.121	SOLID	.039	50			111-RG303	
RG142A/U		.206	.171 D	.121	SOLID	.039	50			60-RG142	
RG142B/U		.200	.171 D	.121	SOLID	.039	50			60-RG142	
RG143/U		.332	.250	.190	SOLID	.057	50			112-RG304	
RG143A/U		.332	.250 D	.190	SOLID	.059	50			112-RG304	
RG174/U		.105	.088 S	.063	7/AWG34	.020	50			119-RG174	
RG174A/U		.105	.088 S	.063	7/AWG34	.020	50			119-RG174	

CABLE REFERENCE TABLE

CABLE DESIGN.	ARMOR O.D. MAX.	JACKET O.D. MAX.	BRAID O.D. MAX.	DIELECTRIC O.D. MAX.	CENTER CONDUCTOR STRANDING	CENTER CONDUCTOR O.D. NOM.	NOMINAL IMPEDANCE OHMS	MAX. FREQ. GHz	MAX. POWER WATTS AT 400 MHz	M17/ REPLACE-MENT	NOTES
RG178B/U		.075	.054 S	.036	7/AWG38	.012	50			93-RG178	
RG179B/U		.105	.084 S	.066	7/AWG38	.012	75			94-RG179	
RG180B/U		.145	.124 S	.105	7/AWG38	.012	95			95-RG180	
RG187A/U		.110	.084 S	.066	7/AWG38	.012	75			136-00001	
RG188A/U		.110	.081 S	.063	7/.0067	.020	50			138-00001	
RG189/U		.875		.632	SOLID	.251	50				Helix. (Nom Dims.)
RG195/U		.155	.124 S	.105	7/.004	.012	95			137-00001	
RG195A/U		.155	.124 S	.105	7/AWG38	.012	95			137-00001	
RG196/U		.080	.054 S	.036	7/.004	.012	50			93-00001	
RG196A/U		.080	.054 S	.036	7/AWG38	.012	50				
RG210/U		.250	.191 S	.151	SOLID	.025	93			97-RG210	
RG211A/U		.745	.670 S	.625	SOLID	.190	50			72-RG211	
RG212/U		.336	.265 D	.189	SOLID	.056	50			73-RG212	
RG213/U		.412	.340 S	.292	7/.0296	.089	50			74-RG213	
RG214/U		.432	.360 D	.292	7/.0296	.089	50			75-RG214	
RG215/U	.475	.412	.340 S	.292	7/.0296	.089	50			74-RG215	
RG216/U		.432	.360 D	.292	7/AWG26	.048	75			77-RG216	
RG217/U		.555	.463 D	.380	SOLID	.106	50			78-RG217	
RG218/U		.880	.760 S	.690	SOLID	.195	50			79-RG218	
RG219/U	.945	.880	.760 S	.690	SOLID	.195	50			79-RG219	
RG220/U		1.135	.990 S	.925	SOLID	.260	50			81-00001	
RG221/U	1.195	1.135	.990 S	.925	SOLID	.260	50			81-00002	
RG222/U		.336	.264 D	.189	SOLID	.056	50			162-00001	
RG223/U		.216	.176 D	.120	SOLID	.035	50			84-RG223	
RG224/U	.615	.555	.463 D	.380	SOLID	.106	50			165-00002	
RG225/U		.440	.360 D	.290	7/.031	.094	50			127-RG393	
RG228/U	.795	.745	.670 S	.625	SOLID	.190	50			161-00002	
RG228A/U	.795	.745	.670 S	.625	SOLID	.190	50			161-00002	
RG301/U		.250	.215 S	.190	7/.0203	.0609	50			109-RG301	
RG302/U		.206	.176 S	.151	SOLID	.025	75			109-RG302	
RG303/U		.175	.146 S	.121	SOLID	.039	50			111-RG303	
RG304/U		.285	.250 D	.190	SOLID	.059	50			112-RG304	
RG316/U		.102	.081 S	.063	7/.0067	.020	50			113-RG316	
RG389/U		.875		.635	SOLID	.250	50				Spline. (Nom Dims)
RG393/U		.400	.360 D	.290	7/.0312	.094	50			127-RG393	
RG400/U		.200	.171 D	.121	19/AWG 33	.039	50			128-RG400	
RG401/U		.251		.211	SOLID	.0641	50			129-RG401	SEMI-RIGID
RG402/U		.141		.118	SOLID	.036	50			130-RG402	SEMI-RIGID
RG403/U		.128	.098 D	.036	7/AWG38	.012	50			131-RG403	
RG404/U		.075	.056 S	.036	7/AWG38	.012	50			132-RG404	
RG405/U		.086		.066	SOLID	.020	50			133-RG405	SEMI-RIGID
M17/2-RG6		.336	.264 D	.189	SOLID	.0285	75	3	210		
M17/6-RG11		.412	.340 S	.292	7/.0159	.0477	75	1	290		
M17/6-RG12	.475	.412	.340 S	.292	7/.0159	.0477	75	1	290		
M17/15-RG22		.430	.355 D	.291	7/.0152	.046	95	200 MHz			TWIN
M17/28-RG58		.199	.150 S	.120	19/.0072	.0355	50	1	90		
M17/29-RG59		.246	.191 S	.150	SOLID	.0226	75	1	130		
M17/30-RG62		.249	.191 S	.150	SOLID	.0253	93	1	9		
M17/31-RG63		.415	.340 S	.295	SOLID	.0253	125	1	330		
M17/45-RG108		.245	.177 S (NOM.)	.081	7/.0126	.0378	78	10 MHz			TWIN
M17/47-RG114		.415	.340 S	.295	SOLID	.007	185	1	150		
M17/54-RG122		.165	.126 S	.099	27/.005	.0308	50	1	62		
M17/60-RG142		.200	.171 D	.121	SOLID	.037	50	12.4	1000		

CABLE REFERENCE TABLE

KINGS

CABLE DESIGN.	ARMOR O.D. MAX.	JACKET O.D. MAX.	BRAID O.D. MAX.	DIELECTRIC O.D. MAX.	CENTER CONDUCTOR STRANDING	CENTER CONDUCTOR O.D. NOM.	NOMINAL IMPEDANCE OHMS	MAX. FREQ. GHz	MAX. POWER WATTS AT 400 MHz	M17/ REPLACE-MENT	NOTES
M17/72-RG211		.745	.670 S	.625	SOLID	.192	50	1	11000		
M17/73-RG212	.475	.336	.265 D	.189	SOLID	.0556	50	11	350		
M17/74-RG213		.412	.340 S	.292	7/.0296	.0888	50	1	320		
M17/74-RG215	.475	.412	.340 D	.292	7/.0296	.0888	50	1	320		
M17/75-RG214		.432	.360 D	.292	7/.0269	.0888	50	11	330		
M17/77-RG216		.432	.360 D	.292	7/.0159	.0477	75	3	270		
M17/78-RG217		.545	.463 D	.380	SOLID	.106	50	3	470		
M17/79-RG218		.880	.760 S	.690	SOLID	.195	50	1	1200		
M17/79-RG219	.945	.880	.760 S	.690	SOLID	.195	50	1	1200		
M17/81-00001		1.135	.990 S	.925	SOLID	.260	50				
M17/81-00002	1.195	1.135	.990 S	.925	SOLID	.260	50				
M17/84-RG223		.216	.176 D	.120	SOLID	.035	50	12.4	86		
M17/90-RG71		.250	.208 D	.151	SOLID	.0253	93				
M17/93-RG178		.075	.054 S	.035	7/.004	.012	50	3	110		
M17/93-00001		.075	.054 S	.035	7/.004	.012	50	3	110		
M17/94-RG179		.105	.084 S	.066	7/.004	.012	75	3	450		
M17/95-RG180		.145	.124 S	.105	7/.004	.012	95	3	550		
M17/97-RG210		.250	.191 S	.151	SOLID	.0253	93	3	1050		
M17/110-RG302		.207	.176 S	.150	SOLID	.0253	75	3	1600		
M17/111-RG303		.175	.146 S	.121	SOLID	.037	50	3	1100		
M17/112-RG304		.288	.250 D	.190	SOLID	.059	50	12	1450		
M17/113-RG316		.012	.0815	.063	7/.0067	.0201	50	3	210		
M17/116-RG307		.270	.237	.149	19/.0058	.029	75	1	130		
M17/119-RG174		.115	.0885	.063	7/.0063	.0189	50	1	26		
M17/127-RG393		.400	.360 D	.290	7/.0312	.094	50	11	800		
M17/128-RG400		.200	.171 D	.121	19/.008	.0384	50	12.4	1050		
M17/129-RG401		.251		.211	SOLID	.0641	50	18	1900		SEMI-RIGID
M17/129-00001		.251		.211	SOLID	.0641	50	18	1900		SEMI-RIGID
M17/130-RG402		.142		.1185	SOLID	.0362	50	20	660		SEMI-RIGID
M17/130-00001		.143		.1185	SOLID	.0362	50	20	660		SEMI-RIGID
M17/130-00002		.142		.1185	SOLID	.0362	50	20	660		SEMI-RIGID
M17/131-RG403		.128	.098 D	.035	7/AWG38	.012	50	10	95		
M17/132-RG404		.077	.056 S	.038	7/AWG38	.012	50	1			
M17/133-RG405		.0875		.068	SOLID	.0201	50	20	210		SEMI-RIGID
M17/133-00001		.0885		.068	SOLID	.0201	50	20	210		SEMI-RIGID
M17/133-00002		.0875		.068	SOLID	.0201	50	20	210		SEMI-RIGID
M17/134-00001		.250	.203	.120	SOLID	.033	50	3	60		TRIAX
M17/134-00002		.250	.203	.120	SOLID	.033	50	3	60		TRIAX
M17/136-00001		.105	.084 S	.066	7/.004	.012	75	3	1400		
M17/137-00001		.145	.124 S	.105	7/.004	.012	95	3	600		
M17/138-00001		.102	.081 S	.063	7/.0067	.0201	50	3	220		
M17/161-00001		.745	.670 S	.625	SOLID	.192	50	400MHz			
M17/161-00002	.795	.745	.670 S	.625	SOLID	.192	50	400MHz			
M17/162-00001		.336	.265 D	.189	SOLID	.0556	50	400MHz			
M17/165-00001		.555	.463 D	.380	SOLID	.106	50	400MHz			
M17/165-00002	.615	.555	.463 D	.380	SOLID	.106	50	400MHz			
M17-168-00001		.430	.325 D	.260	7/.028	.084	50	400MHz			
M17/168-00002		.354	.325 D	.260	7/.028	.084	50	400MHz			
M17/176-00002		.134	.102 S	.044	19/AWG36	.024	77	10 MHz			TWIN
M17/177-00001		.189	.162	.105	7/.004	.012	95	3	660		TRIAX
M17/178-00001		.270	.225	.105	7/.004	.012	95	3	550		TRIAX
M17/179-00001		.195	.170	.066	7/.004	.012	75	3	450		

CABLE REFERENCE TABLE

CABLE DESIGNATION	JACKET O.D. NOM.	BRAID O.D. NOM.	DIELECTRIC O.D. NOM.	CENTER CONDUCTOR STRANDING	CENTER CONDUCTOR O.D. NOM.	NOMINAL IMPEDANCE OHMS	MAX. FREQ. GHz	M17/ REPLACE-MENT	NOTES
Belden 8218	.150				.017	75	1.0		COAX
Belden 8232	.315	.256	.143		.032	75			TRIAX
Belden 8281	.304				.032	75	1.0		COAX
Belden 8422	.231				.025				TWIN
Belden 9272	.242	.170	.075		.037	78			TWIN
Bell & Howell 367863A	.250	.195			.022	124			TWIN
DOD/DNA RF-21	.245	.195	.081		.022	124			TWIN
D3-7619-5/336								178-00001	TRIAX
D3-7619-5/338								179-00001	TRIAX
Essex 21-204	.285	.195	.116		.036	50			TRIAX
Essex 21-597	.150				.017	75			COAX
Grumman GC875TM24H	.152	.140	.045		.024				TWIN
LASL Type C 9Y19503	.200	.150 S	.123	19/.0117	.059				Coax, (Max Dims)
Microdot 250-4804	.145	.120	.035		.0113	48			
Microdot 293-3930	.175	.150	.090		.012	75			TRIAX
Raychem 6726D5311	.180	.150	.072		.019	67			
Raychem 7524D5011	.195	.183	.113		.025	75			
Raychem 10613	.154	.131	.048		.025	77			TWIN
Raychem 10614	.161				.025	77			TWIN
Raychem BL-1242	.245	.185	.079		.021	124			TWIN
Times TRF-58	.245	.193	.118		.040	50			TRIAX
WE 724	.304				.033	75			COAX
380-10045-1								177-00001	TRIAX

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M49142/03-0009	1995-18-5	TRB	Plug	93
M49142/03-0010	1995-19-5	TRB	Plug	93
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M49142/04-0003		TRB	Blkhd Receptacle	94
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M49142/05-0007	1992-8-5	TRB	Blkhd Jack	94
M49142/05-0008	1992-11-5	TRB	Blkhd Jack	94
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M49142/08-0002	1945-13-5	TRT	Plug	99
M49142/08-0005	1945-6-5	TRT	Plug	99
M49142/08-0006	1945-7-5	TRT	Plug	99
M49142/09-0001	1942-9-5	TRT	Blkhd Jack	100
M49142/09-0002	1942-10-5	TRT	Blkhd Jack	100
M49142/09-0006	1942-7-5	TRT	Blkhd Jack	100
M49142/09-0007	1942-5-5	TRT	Blkhd Jack	100
M49142/10-0001	1944-3-5	TRT	Blkhd Receptacle	100
M49142/10-0002	1944-8-5	TRT	Blkhd Receptacle	100

MIL-A-55339

Military Number	Kings Part Number	Series	Description	Page No.
M55339/03-00027	1209-10	N	Adapter	59
M55339/04-00001	1209-19	N	Adapter	59
M55339/04-00030	1209-12	N	Adapter	59
M55339/05-00057	1209-9	N	Adapter	59
M55339/07-00029	1209-13	N	Adapter	59
M55339/13-00001	759-9	BNC	Adapter	21
M55339/13-00492	759-2	BNC	Adapter	21
M55339/14-00306	759-4	BNC	Adapter	20
M55339/15-00491	759-5	BNC	Adapter	20
M55339/16-00914	759-1	BNC	Adapter	20
M55339/17-00274	759-3	BNC	Adapter	20
M55339/20-00201	1209-7	BNC-N	Adapter	122
M55339/25-00606	1209-17	BNC-N	Adapter	122
M55339/35-00001	129-4	TNC	Adapter	37
M55339/49-00349	1209-18	BNC-N	Adapter	122
M55339/50-00001	129-6	TNC	Adapter	37
M55339/51-00001	1209-20	N-TNC	Adapter	124

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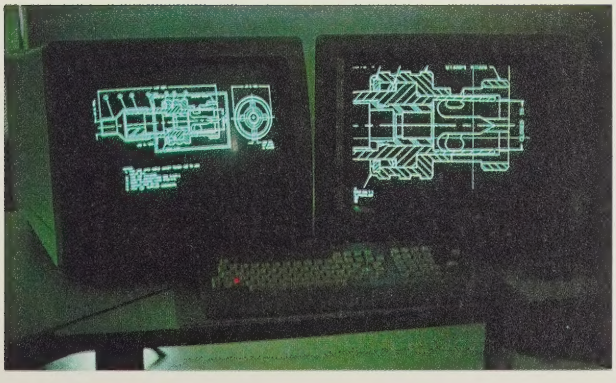

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144 Ronald Drive
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